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College of Engineering & Technology
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Ariyur, Puducherry-605 102
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21001

5.7.2 Sponsored Research (5)

2023-2024 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Hands-On Workshop for Teachers -To improve Science Teaching	2 Days	NCSTC	1,58,000
AI- Powered Remote Disease Diagnosis by Using Deep Learning	3 Months	Sri Venkateshwaraa Medical College Hospital and Research Centre	55,000
Atten Tracker	4 months	Sri Venkateshwaraa College of physiotherapy	1,00,000

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
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GOVERNMENTOFINDIA
Ministry of Science & Technology
Department of Science & Technology
CO/R/TIUS26/2022(G)
(NCSTC)

Technology Bhawan, NewDelhi
Dated:20/11/2023

Sanction Order

Subject: Financial assistance for the project entitled "Hands-On Workshop for Teachers -To improve Science Teaching" submitted by PI -Mr.J.Anandharaj, Assistant Professor, Sri Venkateshwaraa College of Engineering & Technology,Puducherry-605102 and CO PI -Dr. Arun S, IT and T Educational Trust, Tamilnadu,Chennai- 600070

Release of the Installment for workshop I, Sanction of the President is here by accorded to the approval to the above mention project at a total cost of **Rs. 1,58,000.00 (Rupees One Lakh Fifty Eight Thousand only)** The detailed breakup of the grant for General as well as Capital Components are given below-

GeneralComponent:₹1,58,000/-
CapitalComponent:₹0.00/-

ITEMS	Budget Summary (in Rs.)	
	Year – 1	Total
1- Non-Recurring		
Subtotal (Capital)	0	
2- Recurring		
Contingency	5000	5000
Travel	5000	5000
Overhead	5000	5000
A. Organizationof Events/Activities. - Workshop expenses:- a) T.A. for Local Resource Persons Rs.3000 x 2 LRPs x 2 days = Rs.24,000/-, b) Lodging /Boarding for Outside Resource Persons @Rs.4000/- x 2 x 2 days = Rs.32,000/- ,c)Honorarium to Local Resource Persons @ Rs.4000/- x 4LRPsx 2 days = Rs.32,000/-, d) Resource Material Kit @ R.300/- x 50 kits = Rs.15,000/- , e) lunch and Tea for Participants Rs.200/- x 50participants x 2 = Rs.20,000/- ,PI and CO PI Charges = Rs.20,000/- **Total for Training Workshop = Rs.1,58,000/-**	143000	143000
Subtotal (General	158000	158000
Total Project Cost (Cap+Gen.)	158000	158000

Rajinder singh

T.,ᵃ Tech.,M.E.,Ph.D.,
ᵢ₅ₛₒᵣ & Head
 of Co   r Scie..ce and Engineering
ᵢᵢ Venka ...waraa ollege of Engg. & Tech,
A yur, Puducherry- 605 102.

2. The sanction of the President is also accorded to the release of Rs. 1,58,000.00 (Rupees One Lakh Fifty-Eight Thousand only) to the "Director Registrar/Principal/Controller/Comptroller, Sri Venkateshwaraa College of Engineering & Technology" being the payment of grant as mentioned above table under "General Component" for the above-mentioned project in the Bank Name: Axis Bank, Account No: 915020065609508 Branch Kamaraj Salai, Puducherry

3. The expenditureinvolvedis debitable to Demand No. 89, Departmentof Science &Technology fortheyear2023-24:

3425	Other Scientific Research (Major Head)
3425.60	Others:(Sub-MajorHead)
3425.60.789	SpecialComponentPlanforScheduledCastes
3425.60.789.15	Innovation, TechnologyDevelopmentandDeployment
3425.60.789.15.00	DetailedHead
3425.60.789.15.00.31	Grants-in-aidGeneral
	(Previous:3425.60.789.01.01.31)

4. As per Rule 234 of GFR 2017, the sanction has been entered at S. No 187 . in the register of grants maintained in the **NCSTC** for the scheme **SCIENCE COMMUNICATION THROUGH TRADITIONAL AND NOVEL METHODS** AND **LOW COST TEACHING AIDS**

5. This issues with the concurrence of IFD vide their Concurrence Dy. No. IFD/C/111/160823/31/02053dated16/08/2023.

6. The GI will keep all the funds received in the Central Nodal Account only and shall not transfer thefunds to any other account or not divert the same to fixed Deposits/ Flexi-Account/ Multi-OptionDeposit Account/ Corporate Liquid Term Deposit (CLTD) account etc. The funds released to GI shallnotbeparkedinbankaccountofanyotheragency.

7. The GI will ensure the compliance of OM. No. F. No. 1/(18)//FCD/2021 dated March 9,2022 of Department of Expenditure ,Ministry of Finance.

8. This sanction order is subject to the Terms &Conditions as annexed,

Rajinder Singh

(Scientist) rsinghdst@nic.in

To

Pay& Accounts Officer,

Departmentof Science&Technology,

NewDelhi—110016.

Copy of information and necessary action to: -

1. The Principal Director, Audit, Scientific Department, 3rd floor, AGCR Building ,I.P. Estate, New Delhi.

2. The Financial, Advisor', Integrated Finance Division, Technology Bhavan, New Mehrauli road, Block C, Qutab Institutional Area, New Delhi, Delhi110016

3. The Internal Audit Wing ,Department of Science & Technology, TechnologyBhavan,NewMehrauliRoad,BlockC,QutabInstitutionalArea,NewDelhi,Delhi110016

4. Drawing and Disbursing Officer, DST ,Cash Section.(two copies)

5. Mr.J.Anandharaj, Sri Venkateshwaraa College of Engineering & Technology, Puducherry-605102

6. Dr.Arun S, IT and T Educational Trust, ,Tamilnadu ,600070.

7. Secretary, SERB,New Delhi (for allocation of limits to implementing agency)

8. Head (NCSTC)DST

Dr.N.BALAJI
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

निबंधन और शर्तें

2. अनुदानग्राही संस्थान को उपयोग प्रमाण-पत्र इस प्रभाग में भौतिक रूप में भेजने के साथ-साथ पीएफएमएस पोर्टल पर प्रविष्ट और अपलोड करना होगा। अनुवर्ती/अंतिम किस्त प्रभाग द्वारा यूसी की स्वीकृति की पुष्टि और पीएफएमएस में पूर्ववर्ती उपयोग प्रमाण-पत्र की प्रविष्टि के बाद ही जारी की जाएगी।

3. यदि अनुदान एक ही परियोजना के अंतर्गत उपस्कर (रों) की खरीद के लिए पृथक संस्वीकृति आदेश के माध्यम से पूंजी-शीर्ष के अंतर्गत जारी किया गया है तो जारी किया गया पूंजी-शीर्ष अनुदान के लिए पृथक यूसी/यूसी प्रस्तुत करना होगा।

क) उपर्युक्त परियोजना के लिए संस्वीकृत पूंजी आस्तियों की खरीद करते समय अनुदानग्राही संस्थान के उचित नियमों के तहत संस्थान/संगठन द्वारा सामान्य वित्तीय नियमावली 2017 के उपबंधों के अनुरूप पारदर्शी खरीद प्रक्रिया का अनुपालन किया जाए और अनुदान प्राप्ति पर तुरंत प्रभाव से अनुदानग्राही संगठन द्वारा इस .... का .... शुरू किया जाए।

ख) उपयोग प्रमाण-पत्र/ व्यय विवरण प्रस्तुत करते समय, संगठन को जीएफआर 2017 के उपबंधों के अनुसरण में उपस्कर/पूंजी आस्तियों की खरीद के संबंध में ●

5. जीएफआर नियमावली 2017 के नियम 230 (8) के अनुसार अनुदानग्राही संस्थान को सुनिश्चित करना चाहिए कि किसी भी अनुदानग्राही संस्थान को जारी किए गए

6. जीएफआर नियमावली 2017 के नियम 230 (17) के अनुसार, "अनुदानग्राही संस्थान को भारत सरकार के निर्देशानुसार अपने नियंत्रणाधीन पदों या सेवाओं में

7. अनुदानग्राही संस्थान परियोजना का पृथक परीक्षित लेखा रखेगा और अनुदान की समस्त राशि बैंक खाते में सब्याज रखी जाएगी। वित्तीय वर्ष 2017-18 के दौरान और अनुदान कर प्राप्ति पोर्टल (एनटीआरपी) अर्थात www.bharatkosh.gov.in के माध्यम से) विप्रेषित की जाएगी, क्योंकि यह राशि भविष्य में जारी की जाने वाली राशि में

2017 में निर्धारित प्रक्रिया के अनुसार अप्रचलित और अनुप्रयोज्य, अनुपयोगी घोषित अनुदानों से इतर), का निपटारा डीएसटी का पूर्व अनुमोदन प्राप्त किए बिना नहीं

9. जैसा कि सामान्य वित्तीय नियमावली 2017 के नियम 236 (1) के तहत निर्धारित किया गया है, अनुदानग्राही संगठन का लेखा स्वीकृति प्रदाता प्राधिकरी और लेखा परीक्षक (भारत के नियंत्रक एवं महालेखापरीक्षक और डीएसटी के प्रधान लेखा कार्यालय दोनों द्वारा आंतरिक लेखा परीक्षा) द्वारा निरीक्षण किए जाने, जब भी संगठन को ऐसा करने के लिए कहा जाता है, हेतु अभिगम्य होगा।

11. बॉन्ड के नियमों और शर्तों का पालन करने में असफल होने पर जीएफआर 2017 के नियम 231 (2) के अनुसार पूरी राशि सब्याज वापस करनी होगी।

12. पीएफएमएस में ईएटी मॉड्यूल का उपयोग करना अनिवार्य है, ऐसा न करने पर अन्य कोई भी आगामी निधि जारी नहीं की जाएगी।

13. जीएफआर के नियम 149 के उपबंधों के अनुसार जीईएम पोर्टल पर उपलब्ध वस्तुओं (उपभोज्य वस्तु /उपस्कर) का अनिवार्यतया आनॅ लाइन प्रापण जेम (जीईएम) ही के माध्यम से किया जाना है।

14. अनुदान ग्राही संस्थान को व्यय विभाग के आईडी नोट संख्या 4/1/2021-पीपीडी दिनांक 10.09.2021 के अनुसार वैश्विक निविदाकरण जांच-पड़ताल (जीटीई) नियमों

15. यदि एकबारगी सहायता या गैर-आवर्ती अनुदान 10.00 लाख रुपये से 50.00 लाख रुपये के सहायता अनुदान का हो तो इसे संस्थान की वार्षिक रिपोर्ट में दर्ज किया जाना चाहिए।

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TITLE:

AI-POWDERED REMOTE DISEASE DIAGNOSIS BY USING DEEP LEARNING

ABSTRACT

Rural areas face significant challenges in healthcare access due to the shortage of medical professionals. The AI-Based Disease Prediction System is designed to provide early diagnosis in remote regions by analyzing patient inputs (such as symptoms and medical history) and predicting likely diseases. The system goes beyond standard prediction models by incorporating unique features such as personalized risk assessments that account for genetic, lifestyle, and environmental factors. It also offers real-time health monitoring through wearable device integration, ensuring continuous care. The AI model adapts and improves with real-time updates, enhancing its accuracy over time. Additionally, the system is built with explainable AI, providing transparent explanations for each diagnosis to increase user trust. By integrating telemedicine, this solution ensures comprehensive healthcare access in underserved regions. The system is cloud-based or mobile-friendly, making it adaptable and accessible for a wide range of users.

SOLUTION

The proposed solution uses a machine learning model trained on a diverse dataset of patient records. The system operates through the following steps:

1. Data Input: Patients input their symptoms and medical history via a mobile app or web platform.

2. AI Processing: The AI model analyzes the input data, compares it with its trained dataset, and predicts potential diseases.

3. Recommendations: The system suggests possible treatments or refers the patient to healthcare professionals for further consultation.

4. Telemedicine Integration: Patients can connect with doctors for remote consultations through the system.

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21001

UNIQUE ASPECTS

1. Personalized Risk Assessment: The system integrates genetic, lifestyle, and environmental data for more precise disease predictions.

2. Continuous Learning: The model updates in real-time and can utilize federated learning for data privacy.

3. Explainable AI: The system provides clear explanations for each diagnosis, ensuring transparency and user confidence.

4. Wearable Device Integration: It uses real-time data from wearable devices like smartwatches for continuous health monitoring and early disease detection.

CONCLUSION:

The AI-Based Disease Prediction System aims to provide healthcare support in rural areas where access to medical professionals is limited. By leveraging AI and machine learning, this system can assist in offering preliminary diagnoses and health recommendations based on patient data such as symptoms and medical history.

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5.7.2 Sponsored Research(5)

2023-2024

TITLE:

ATTEN TRACKER

ABSTRACT:

Atten Tracker is a web-based application designed to assess attention-related disorders through four structured medical tests. Our platform helps individuals evaluate their cognitive attention levels and identify potential attention-related issues. Each test provides a detailed analysis, allowing users to gain insights into their focus, concentration, and multitasking abilities

MODULES:

1. **Selective Attention** -Evaluates the ability to focus on specific information while filtering out distractions.
2. **Selective and Sustained Attention** -Assesses the capacity to maintain focus over an extended period while ignoring irrelevant stimuli.
3. **Alternative Attention** – Measures the ability to switch focus between different tasks efficiently.
4. **Divided Attention** – Determines the ability to manage and respond to multiple tasks simultaneously.

CONCLUSION:

Atten Tracker serves as a valuable tool for assessing attention-related disorders by providing structured medical tests that evaluate various aspects of cognitive attention. By analyzing selective, sustained, alternating, and divided attention, the platform offers users deep insights into their focus, concentration, and multitasking abilities. This web-based application empowers individuals to identify potential attention-related issues and seek appropriate interventions if needed, making it a practical and accessible solution for cognitive health assessment.

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2022-2023(CAYm2)

Project Title	Duration	Funding Agency	Amount
Research on AI-Powered Institutional Superintendence System	3 Months	Lumina Datamatics	1,70,000
PowerWalk-Footstep Energy Generation	5 Months	Sri Venkateshwaraa Dental College	50,000

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Ariyur, Puducherry- 605 102.
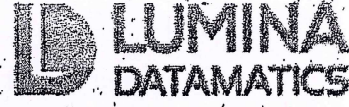
Date: 16/12/2022

To,

Dr. S. Pradeep Devaneyan

Principal

Sri Venkateshwaraa College of Engineering & Technology

Ariyur. Puducherry

Dear sir,

(Sub: Grant of Endowment Fund to Sri Venkateshwaraa College of Engineering & Technology, Ariyur, Puducherry-Reg.)

We are glad to witness the efforts and remarkable progress of your institution, Sri Venkateshwaraa College of Engineering & Technology, Ariyur, Puducherry in bringing up the Student Community of surrounding rural areas of Ariyur. As per our CSR policy, we promote education at every stage and support the livelihood enhancement projects. In this connection, we Lumina Datamatics would like to grant an Endowment Fund of Rs. 12, 72, 000/- through Cheque to the Institution for the purpose of Research/ Academic Projects and to establish Innovation & Entrepreneurial Ecosystem through technical activities at your Institution. Also, we would suggest to encourage the social responsibility of the students through NSS by appreciating their volunteerism through the same fund.

Yours Sincerely,

For Lumina Datamatics Limited
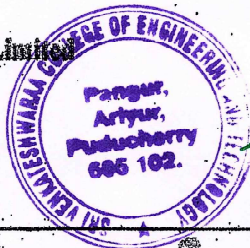
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ARIYUR, PUDUCHERRY - 605 102

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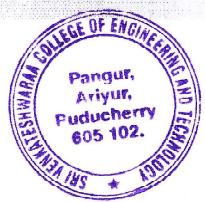
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For LUMINA DATAMATICS LIMITED

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605 102.
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Date	Date	Description	Ref No	Amount	CR/DR	Balance	Branch
				2300.00	CR	1848370.20	PONDICHERRY [PY]
14-12-2022	14-12-2022	UPI/P2A/234849306176/N BALAJI/IDBI Bank/UPI		2150.00	CR	1850520.20	PONDICHERRY [PY]
14-12-2022	14-12-2022	UPI/P2A/234843207120/R SURESH/ICICI Ban/UPI		2000.00	CR	1852520.20	PONDICHERRY [PY]
15-12-2022	15-12-2022	UPI/P2A/234913061915/KANCHERLA/State Ban/Payment		12000.00	CR	1864520.20	PONDICHERRY [PY]
15-12-2022	15-12-2022	UPI/P2A/234909261416/RISHIMUKU/State Ban/UPI		2900.00	CR	1867420.20	PONDICHERRY [PY]
15-12-2022	15-12-2022	UPI/P2A/234909531839/PAVITHRA /State Ban/UPI		10000.00	CR	1877420.20	PONDICHERRY [PY]
15-12-2022	15-12-2022	UPI/P2A/234972884460/Mr S Syed/Indian Ba/UPI		1400.00	CR	1878820.20	PONDICHERRY [PY]
15-12-2022	15-12-2022	UPI/P2A/234972895622/Master BJ/Indian Ba/UPI		7630.00	CR	1886450.20	RTGS HUB
15-12-2022	15-12-2022	NEFT/YESB23499930893/DIGIO NODAL REPAYMENT NODAL		800000.00	CR	2686450.20	KAMARAJ SALAI, PON PY
15-12-2022	15-12-2022	SAK/CASH DEP/SAK322107843/2694/SELF		15000.00	CR	2701450.20	PONDICHERRY [PY]
15-12-2022	15-12-2022	UPI/P2A/234916501606/Mr. G. HA/Indian Ba/UPI		39679.00	CR	2741129.20	RTGS HUB
15-12-2022	15-12-2022	NEFT/CMS3008618225/COREINTEGRA CONSULTING SERVICE		36000.00	CR	2777129.20	PONDICHERRY [PY]
16-12-2022	16-12-2022	UPI/P2A/235015335730/RAJANI/Axis Bank/UPI		2050.00	CR	2779179.20	PONDICHERRY [PY]
16-12-2022	16-12-2022	UPI/P2A/235005423708/KALEEM /Kotak Mah/NA		76527.00	CR	2855706.20	RTGS HUB
16-12-2022	16-12-2022	NEFT/YESB23503001328/DIGIO NODAL REPAYMENT NODAL		16300.00	CR	2872006.20	PONDICHERRY [PY]
16-12-2022	16-12-2022	UPI/P2A/235024297553/MAHENDRAN/Bank of I/UPI		33500.00	CR	2905506.20	CCGOI HYDERABAD HYD TG
16-12-2022	16-12-2022	By Clg 007609 229 Pondicherry		10000.00	CR	2915506.20	PONDICHERRY [PY]
17-12-2022	17-12-2022	UPI/P2A/235152628620/GANESSIN /State Ban/UPI		11000.00	CR	2926506.20	RTGS HUB
17-12-2022	17-12-2022	NEFT/YESB23515957955/DIGIO NODAL REPAYMENT NODAL		500000.00	CR	3426506.20	KAMARAJ SALAI, PON PY
17-12-2022	17-12-2022	SAK/CASH DEP/SAK322508714/2694/CASH DEPOSIT		1500000.00	DR	1926506.20	VADAPALANI CHN TN
17-12-2022	17-12-2022	TRF/2559/RAMACHANDRA EDUCATIO/TRF	663919	24710.00	CR	1951216.20	RTGS HUB
19-12-2022	19-12-2022	NEFT/YESB23531566822/DIGIO NODAL REPAYMENT NODAL		20000.00	CR	1971216.20	PONDICHERRY [PY]
20-12-2022	20-12-2022	IMPS/P2A/235409461940/VISHNUVI/FEDERALB/SentviaJ		10000.00	CR	1981216.20	PONDICHERRY [PY]
20-12-2022	20-12-2022	IMPS/P2A/235409462007/VISHNUVI/FEDERALB/SentviaJ		1272000.00	CR	3253216.20	CCGOI HYDERABAD HYD TG
20-12-2022	20-12-2022	By Clg 001891 240 Pondicherry		60300.00	CR	3313516.20	CCGOI HYDERABAD HYD TG
20-12-2022	20-12-2022	By Clg 724596 015 Pondicherry		57300.00	CR	3370816.20	CCGOI HYDERABAD HYD TG
20-12-2022	20-12-2022	By Clg 394268 002 Pondicherry		64400.00	CR	3435216.20	CCGOI HYDERABAD HYD TG
20-12-2022	20-12-2022	By Clg 394249 002 Pondicherry		50000.00	CR	3485216.20	CCGOI HYDERABAD HYD TG
20-12-2022	20-12-2022	By Clg 503128 229 Pondicherry		57300.00	CR	3542516.20	RTGS HUB
20-12-2022	20-12-2022	NEFT/MAHB122354570708/BANK OF MAHARASHTRA NELLITH		20000.00	CR	3562516.20	PONDICHERRY [PY]
21-12-2022	21-12-2022	UPI/P2A/235524369875/S KULASE/Indian Ov/Payment		10000.00	CR	3572516.20	PONDICHERRY [PY]
21-12-2022	21-12-2022	UPI/P2A/235576055970/Mr RAJARA/Indian Ba/UPI		10000.00	CR	3582516.20	PONDICHERRY [PY]
21-12-2022	21-12-2022	UPI/P2A/235576072316/Mr RAJARA/Indian Ba/UPI		8500.00	CR	3591016.20	RTGS HUB
21-12-2022	21-12-2022	UPI/P2A/235576086960/Mr RAJARA/Indian Ba/UPI		30490.00	CR	3621506.20	RTGS HUB
21-12-2022	21-12-2022	NEFT/YESB23557812983/DIGIO NODAL REPAYMENT NODAL		25440.00	CR	3646946.20	RTGS HUB
22-12-2022	22-12-2022	NEFT/YESB23561068309/DIGIO NODAL REPAYMENT NODAL		500000.00	CR	4146946.20	KAMARAJ SALAI, PON PY
22-12-2022	22-12-2022	SAK/CASH DEP/SAK323170166/2694/SELF		267434.00	DR	3879512.20	KAMARAJ SALAI, PON PY
22-12-2022	22-12-2022	DD ISSUED/SAK/SENIOR ACCOUNTS OFFICER-1, ELECTRICI	700565	115219.00	DR	3764293.20	KAMARAJ SALAI, PON PY
22-12-2022	22-12-2022	TRF/2694/A A SEKAR LABOUR CON/TRF	700563	2000000.00	DR	1764293.20	VADAPALANI CHN TN
22-12-2022	22-12-2022	TRF/2559/RAMACHANDRA EDUCATIO/trf Ramachandra Edu	663918	8879.00	CR	1773172.20	RTGS HUB
23-12-2022	23-12-2022	NEFT/CMS3021735693/COREINTEGRA CONSULTING SERVICE		9875.00	CR	1783047.20	RTGS HUB
23-12-2022	23-12-2022	NEFT/CMS3021735696/COREINTEGRA CONSULTING SERVICE		15371.00	CR	1798418.20	RTGS HUB
23-12-2022	23-12-2022	NEFT/CMS3021735700/COREINTEGRA CONSULTING SERVICE		7618.00	CR	1806036.20	RTGS HUB
23-12-2022	23-12-2022	NEFT/CMS3021735691/COREINTEGRA CONSULTING SERVICE		40000.00	CR	1846036.20	PONDICHERRY [PY]
23-12-2022	23-12-2022	UPI/P2A/235794480940/AKASH J N/State Ban/UPI		10000.00	CR	1856036.20	PONDICHERRY [PY]
26-12-2022	26-12-2022	UPI/P2A/236091314478/K SARATHR/UCO Bank/UPI		14135.00	CR	1870171.20	RTGS HUB
26-12-2022	26-12-2022	NEFT/YESB23602690189/DIGIO NODAL REPAYMENT NODAL					

SRI VENKATESWARAA COLLEGE OF ENGINEERING AND TECHNOLOGY
No.13 A PONDY VILLUPURAM MAIN ROAD, ARIYUR,PONDICHERRY - 605 102.

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2023

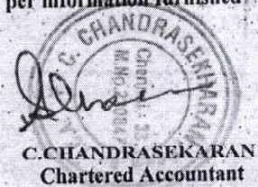| EXPENDITURE	AMOUNT Rs. P.	INCOME	AMOUNT Rs. P.
To Opening Stock	16596.13	By Tuition Fees	23513800.00
" Advertisement	877929.00	" Book Fees	556660.00
" ESI	47897.00	" Application Fees	95100.00
" Bank Charges	2083.70	" Interest on Fixed Deposit	392594.00
" Book Purchase	543440.00	" Training and Personality Developmen	3797500.00
" Lab Consumables	935044.00	" Other Income	9279450.97
" Office Expenses	118422.00		
" Provident Fund	143824.00		
" Salary	15368348.00	" Closing Stock	56144.89
" Printing and Stationery	281191.00		
" Inspection Fees	1050455.00	Excess of Expenditure Over Income	46654.68
" Telephone Expenses	16707.00		
" Training and Personality Development	1071093.00		
" College Maintenance	290076.00		
" Electricity Charges	1001739.00		
" Repair and Maintenance	1549373.00		
" House Keeping Expenses	1447178.00		
" Research and Development	1272398.00		
" Fee Concession	5587000.00		
" Travelling expenses	112375.00		
" Staff Welfare Expenses	128578.00		
" Postage and Courier Charges	2159.00		
" Subscription - Journal	243034.00		
" Student Welfare Expenses	384637.00		
" Depreciation	5246327.71		
	37737904.54		37737904.54

For Sri Venkateswaraa College of Engineering & Technology

As per information furnished

Place : Chennai
Date : 06/08/2022

Chairman
B.Ramachandran

C.CHANDRASEKARAN
Chartered Accountant

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SRI VENKATESHWARAA COLLEGE OF
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College of Engineering & Technology

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AUDITED UTILIZATION CERTIFICATE

Name of Institute: SRI VENKATESHWARAA COLLEGE OF ENGINEERING & TECHNOLOGY

Name of the Scheme under which Endowment Fund was sanctioned: Research & Development- Endowment Fund Projects

Duration under which the Endowment Fund was sanctioned	Amount Sanction (Rs.)	CERTIFICATE
SVCET/R&D/Endowment Fund/2022-2023/December-March 2023	Rs. 12, 72, 000/-	Certified that the Endowment Fund of Rs. 12, 72,000/- (Twelve lakhs seventy-two thousand rupees only) received from Lumina Datamatics, a non-government organization has been sanctioned by the SVCET to Research & Development during the Financial Year 2022-23 as per the project details mentioned below in the Expenditure Statement, on account of Interest has been utilized for the purpose for which it was sanctioned, and the balance of Rs. 0/- remained unutilized at the end of the March 2023.

Certified that I have satisfied myself that the conditions on which the Endowment Fund was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised:

1. Audited Annual Accounts of the Institute
2. Receipt and Payment of the Fund to the Principal Investigator of the Projects
3. Expenditure Statement

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E-mail : principal@svcet.ac.in
Phone : 0413 - 2644426, Fax : 0413 - 2644424

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ISO 21001

Expenditure Statement of the Endowment Fund

S. No.	Project Title	Principal Investigator	Endowment Fund for the Project in lakhs	
			Sanctioned Amount	Utilized Amount
1	Tribological Study through Electro Co-deposition of Pulse Current, Pulse Reverse Current and Functionally Graded Pulse Current Apparatus	Dr. S. Pradeep Devaneyan, Principal	0.95	0.95
2	Research on AI-Powered Institutional Superintendence System	Dr.N.Balaji, Professor & HoD/CSE	1.7	1.7
3	Sustainable Street Light System for Smart City	Dr.V.Nagaraj, Professor & HoD/ECE	0.625	0.625
4	Influence of Surface Engineered coatings on the erosion behaviour of the pipeline	Dr.B.Magimairaj, Professor & HoD/MECH	0.7	0.7
5	Customizable Automated Drying System	Dr.G.Amuthavalli, Associate Professor/ECE	0.693	0.693
6	Research on Mixed Reality in Education	Mr.J.Anandharaj, Assistant Professor/ECE	0.95	0.95
7	Menstrual Waste Management in Pondicherry	Ms.M.Sowmiya, Assistant Professor/BME	0.9	0.9
8	Design of Automatic Urine Sample Collection System	Ms.M.Sowmiya, Assistant Professor/BME	0.42	0.42

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S. No.	Project Title	Principal Investigator	Endowment Fund for the Project in lakhs	
			Sanctioned Amount	Utilized Amount
9	Hybrid Energy Saving of Poer Distribution System for Residential Loads	Mr.P.Meganathan, Assistant Professor/EEE	0.627	0.627
10	Automated Intravenous infusion setup	Mr.S.Balaji, Assistant Professor/BME	0.42	0.42
11	Modifiable Prosthetic Leg Socket	Mr. Murali, Assistant Professor/EEE	0.4	0.4
12	Investigation on Mechanical and Thermal Properties of Polycarbonate and Polycarbonate Polymer Reinforced Glass Fiber Composites through FFF 3D Printing Technique	Mr.Ravindran, Assistant Professor/MECH	0.43	0.43
13	Design and Fabrication of Wiper Mechanism Agriculture Weeder	Mr.Kamalanathan, Assistant Professor/MECH	0.42	0.42
14	Design of Wireless Charging System for Electric vehicles	Mr.Venkedesh, , Assistant Professor & HoD(i/c)/EEE	0.603	0.603
15	Design of Smart Bin for Face Mask Disposal	Mrs.K.Sujatha, Assistant Professor/ ECE	0.448	0.448
16	Automatic Class Attendnce System based on face Recognition	Ms. Thamizhselvi, Assistant Professor/ ECE	0.409	0.409

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E-mail : principal@svcet.ac.in
Phone : 0413 - 2644426, Fax : 0413 - 2644424

| S. No.	Project Title	Principal Investigator	Endowment Fund for the Project in lakhs	
			Sanctioned Amount	Utilized Amount
17	IoT based Smart Energy Monitoring System	Mrs. K. Mayavady, Assistant Professor/ ECE	0.325	0.325
18	Design of Aquarium-supported Aquaponic Irrigation System	Mrs. Anitha, Assistant Professor & HoD/MBA	0.514	0.514
19	Study on Preparation of Traditional Nut Candy with Greater Shelf-life	Mrs. Anitha, Assistant Professor & HoD/MBA	0.134	0.134
20	Investigations on Making of Indigenous Herbal Hair oil	Mrs. Sasikala, Assistant Professor /MBA	0.118	0.118
21	A Study on Intensification of Aromatic Traditional Home-made Spices	Mr. Murali.M, Assistant Professor /MBA	0.134	0.134
22	Endowment Orientation Session on "Pudhuvai Startup Sprint -An Entrepreneurial Initiative" on 21/03/2023	Dr.G.Amuthavalli, Associate Professor/ECE	0.155	0.155
23	Endowment Seminar on Managerial Expectations by Corporate Entrepreneur on 07/01/2023	Mr.G. Palanivel, Assistant Professor/MECH	0.167	0.167
24	Endowment Seminar on "Entrepreneurial Development" on 10/01/2023	Dr.B.Magimairaj, Professor & HoD/MECH	0.155	0.155

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S. No.	Project Title	Principal Investigator	Endowment Fund for the Project in lakhs	
			Sanctioned Amount	Utilized Amount
25	Endowment Seminar on "Emerging Research Trends in IT" on 21/01/2023	Mr. Palanivel, Assistant Professor/MECH	0.165	0.165
26	Endowment Seminar on "Entrepreneurial Values and Culture" on 28/01/2023	Dr.B.Magimairaj, Professor & HoD/MECH	0.158	0.158
TOTAL			12.72	12.72

[Signature of Head of the Institute]
Name : Dr. S. Pradeep Devaneyan
Designation : Principal
Sri Venkateshwaraa College of
Engineering & Technology
[with seal]

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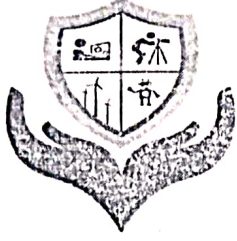
COMPLETE PROJECT REPORT

Funding Scheme : Endowment Fund for Research & Development

Project Title : Research on AI-Powered Institutional Superintendence System

Project Code : 2022-23/EFRD/RP/CSE/01

Name of the PI : Dr. N. BALAJI,
D.C.T., B.Tech.,M.E.,Ph.D..
Professor and Head
Department of computer science & Engineering

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College of Engineering & Technology
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Date : 23/12/2022

Submitted to : The Principal

Through : R&D Cell

Subject : Requisition of Fund for a Research Project-reg.

Respected Sir,

With reference to the circular dated 20/12/2022, I hereby expressing my interest in doing a research project entitled, "Research on AI-Powered Institutional Superintendence System" for the purpose of facilitating the ease of faculty work and streamlining class attendance, mark lists, and profiles. I request a financial support of Rs. 1,70,000/- (One Lakh Seventy Thousand rupees Only) for the implementation of the project and enclosing the detailed project proposal with this for your kind perusal.
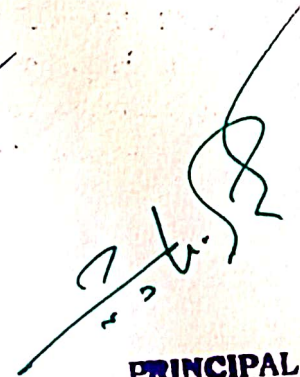
Thanking you,

Yours sincerely,

Dr. N. BALAJI,
D.C.T., B.Tech.,M.E.,Ph.D..
Professor and Head
Department of computer science
& Engineering

Forwarded to
Principal

PRINCIPAL
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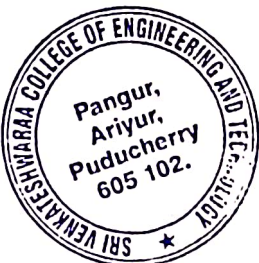
PROJECT PROPOSAL

Funding Scheme	:	Endowment Fund for Research & Development
Title of the Project	:	Research on AI-Powered Institutional Superintendence System
Name of the PI	:	Dr. N. BALAJI
Designation & Dept.	:	Professor and Head Department of computer science & Engineering
Name of the Co-PI	:	Mrs.K.Andal, Assistant Professor Department of computer science & Engineering

Details of the Project Team:

1. Mr.Ajay S (CSE - IV Year)
2. Mrs.Arul Jenifer A (CSE - IV Year)
3. Mr.Thiruvarasan M (CSE - IV Year)
4. Mr.Shiyam M (CSE - IV Year)

Abstract :
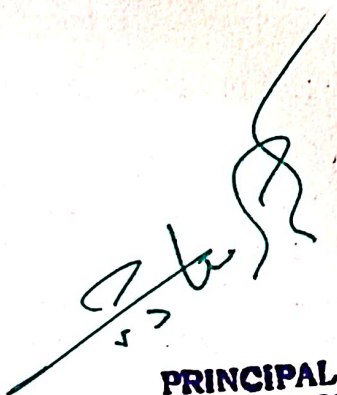
The "Research on AI-Powered Institutional Superintendence" project aims to modernize educational management systems by introducing automated attendance tracking and student mark list generation. Traditional methods are often time-consuming and prone to errors, lacking real-time insights. Our system will utilize various technologies such as responsive application to ensure accurate attendance recording, seamlessly integrating with existing databases.

Advanced algorithms will analyze attendance data, providing administrators with instant metrics and enabling proactive intervention for attendance-related issues. Additionally, the system will automate mark list creation, reducing administrative burdens for educators and offering customizable templates to suit specific requirements. Benefits of the project include streamlined administrative processes, improved data accuracy, and timely interventions to enhance student attendance and academic performance.

In summary, by introducing modern technologies, institutions can optimize their operations, enhance outcomes, and contribute to educational innovation.

Project Plan :

Work to be done	Period in day/months	Expected Fund in Rs.	List of Equipment required for the project and any other support
Student & Faculty Profile	20 days	Rs.40,000.00	1. Furniture 2. Projector with Screen 3. System 4. Server 5. Domain
Attendance	1 month 15 days	Rs.61,000.00	
Result Analysis	20 days	Rs.60,500.00	
Integration	5 days	Rs.8,500.00	
Total Expected Fund		Rs.1,70,000/- (One Lakh Seventy Thousand Only)	

Signature of the PI

Dr. N. BALAJI,
D.C.T., B.Tech.,M.E.,Ph.D..
Professor and Head
Department of computer science
& Engineering

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Date:18/4/2023

FUND UTILIZATION REPORT

Funding Scheme: Endowment Fund for Research & Development

Project Code:2022-23/EFRD/RP/CSE/01

Title of the Project: Research on AI-Powered Institutional Superintendence System

Name of the PI: Dr. N. BALAJI

Designation & Dept.: Professor and Head
Department of computer science & Engineering

Name of the Co-PI: Mrs.K.Andal, Assistant Professor
Department of computer science & Engineering

Details of the Project Team:

1. Mr.Ajay S (CSE - IV Year)
2. Mrs.Arul Jenifer A (CSE - IV Year)
3. Mr.Thiruvarasan M (CSE - IV Year)
4. Mr.Shiyam M (CSE - IV Year)

It is reported that a sum of Rs. 1,70,000/- (One Lakh Seventy Thousand rupees Only) sanctioned by Sri Venkateshwaraa College of Engineering & Technology under the Funding Scheme of "Endowment Fund for Research & Development" for carrying out the project, "Research on AI-Powered Institutional Superintendence System" has been utilized for which it was sanctioned and sum of Rs. 1,70,000/- (One Lakh Seventy Thousand rupees Only) remained unutilized has been refunded.

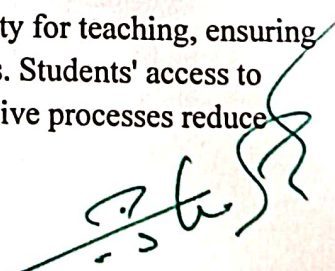**Enclosure:Outcome of the Project**

The AI-powered system automates attendance tracking, freeing faculty for teaching, ensuring accuracy, and providing real-time insights for proactive interventions. Students' access to attendance data promotes engagement, while streamlined administrative processes reduce burdens, enhancing overall effectiveness.

PI   R&D Cell   HOD   PRINCIPAL
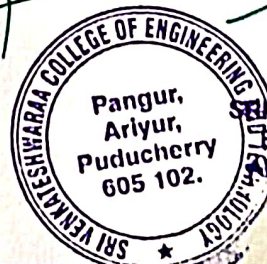
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PROJECT OUTCOME

Funding Scheme : Endowment Fund for Research & Development

Project Code : 2022-23/EFRD/RP/CSE/01

Title of the Project : Research on AI-Powered Institutional Superintendence System

Name of the PI : Dr. N. BALAJI

Designation & Dept. : Professor and Head
Department of computer science & Engineering

Outcome of the Project :

Problem:

Educational institutions face challenges with manual attendance tracking systems, which are time-consuming, error-prone, and lack real-time insights. Additionally, the process of creating student mark lists is labor-intensive, leading to inefficiencies and administrative burdens for educators. These issues hinder the effective management of student attendance and academic records.
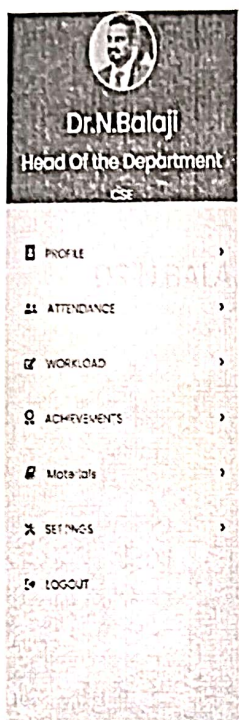
Solution:

The "Research on AI-Powered Institutional Superintendence" project introduces an automated system utilizing responsive web applications for seamless and accurate attendance tracking, without biometric scans or RFID tags. Advanced algorithms provide real-time metrics and enable proactive interventions for attendance issues. Additionally, the system automates student mark list creation, reducing administrative burdens and enhancing efficiency.

Implementation:

The implementation of the proposed system will involve the development of a user-friendly web application for both students and faculty members. The application will allow students to check-in to classes using their smartphones, while faculty members can easily record attendance and access attendance reports. The system will be integrated with existing institutional databases to ensure data accuracy and compatibility. Additionally, customizable templates will be provided for mark list generation, allowing institutions to tailor the format according to their specific requirements.

Output:

Profile

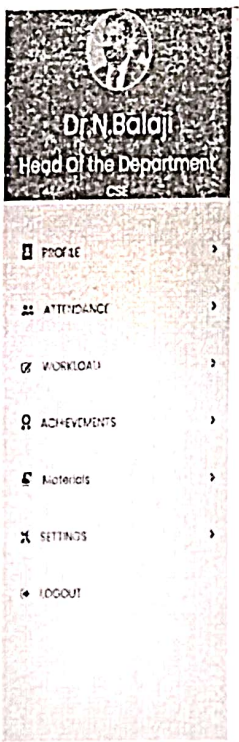**Attendance & Leave Request**

Result Analysis

Marksheet-View

1st Year

ODD-SEM	EVEN-SEM
CIA-1	CIA-1
CIA-2	CIA-2
MODAL-EXAM	MODAL-EXAM
2-MARK	2-MARK

Outcome:

The implementation of the AI-powered institutional superintendence system will yield several positive outcomes for educational institutions. Firstly, it will streamline administrative processes, reducing the time and effort required for attendance tracking and mark list generation. Secondly, it will improve data accuracy and integrity, minimizing errors associated with manual data entry. Thirdly, it will enable timely interventions to address attendance-related issues and improve student outcomes. Overall, the system will enhance operational efficiency, transparency, and accountability within educational institutions, paving the way for greater success and innovation.

Signature of the PI

Dr. N. BALAJI,
D.C.T., B.Tech.,M.E.,Ph.D..
Professor and Head
Department of computer science
& Engineering

TITLE:

Power Walk-Footstep Energy Generation

TEAM MEMBERS:

Hariprasath.P

Muthumaran.T

Datchany.R

Shamini.P

ABSTRACT

With the increasing demand for portable power sources, there is a need for innovative solutions that generate energy on the go. Power Walk is a self-sustaining energy-harvesting system embedded in footwear, utilizing piezoelectric crystals to convert mechanical pressure from walking into electrical energy. This energy is stored in a compact power bank within the shoe, providing a reliable source for charging small electronic devices such as smartphones, smartwatches, and wireless earbuds. Power Walk enhances mobility by enabling users to generate and store power effortlessly while walking, making it an eco-friendly and practical solution for energy needs in remote or outdoor environments.

MODULE:

In today's world, access to portable power sources is crucial, especially for individuals who frequently travel, work in remote areas, or lack immediate access to electricity. Traditional power banks depend on external charging, which can be inconvenient when away from power outlets. There is a growing need for a self-sustaining energy solution that can generate power independently without requiring frequent recharging from electrical grids.

SVCET – Department of CSE

Dr.N.BALAJI, D.C.T.,B.Tech.,M.E.,Ph.D.,
Professor & Head
Dept. of Computer Science and Engineering
Sri Venkateshwaraa College of Engg. & Tech,
Ariyur, Puducherry- 605 102.

Page 1

CHALLENGES:

- Limited access to power sources in remote areas.
- Dependence on pre-charged power banks, which eventually run out.
- Frequent charging required for mobile devices, creating inconvenience.
- Lack of renewable on-the-go energy solutions.

IDEA

Power Walk integrates piezoelectric technology within the sole of a shoe to harness energy from footsteps. Each step applies pressure to piezoelectric crystals, generating small amounts of electrical energy. A charge controller regulates the energy flow, which is then stored in a rechargeable power bank embedded in the shoe. Users can access this stored energy through USB ports or wireless charging to power their devices anytime, anywhere.

KEY FEATURES:

- Piezoelectric energy harvesting – Converts walking pressure into electricity.
- Built-in power storage – Stores energy in a compact, rechargeable battery.
- Device charging – Powers small gadgets via USB or wireless charging.
- Eco-friendly & sustainable – Reduces reliance on conventional electricity sources.
- Lightweight & ergonomic design – Ensures user comfort for daily use.

CONCLUSION:

The Power Walk presents a groundbreaking solution to the growing demand for portable and sustainable energy sources. By harnessing the power of piezoelectric technology embedded within footwear, it offers a self-sustaining method of generating and storing electricity through natural movement. This innovation eliminates the dependence on pre-charged power banks and traditional outlets, providing users with a convenient and eco-friendly way to charge small electronic devices on the go. With its ergonomic design and renewable energy approach, Power Walk enhances mobility and energy accessibility, making it a practical solution for individuals in remote locations and outdoor environments.

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2021-2022(CAYm3)

Project Title	Duration	Funding Agency	Amount
IPR and Innovation based Impact Lecture Series- Institutions Innovation Cell	2 days	AICTE –MIC - IIC	12000
Research on Detecting Spam In Email	4 Months	Sri Venkateshwaraa College of Paramedical Science	10000

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Statement of Expenditure

Name of the Institute : SRI VENKATESHWARAA COLLEGE OF ENGINEERING & TECHNOLOGY, PUDUCHERRY

IIC ID : IC20192116

Name of the Scheme under which the Grant is approved (Reimbursement Mode):
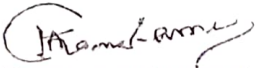
IMPACT LECTURE SERIES

Expenditure Details

Session -1		
Date:	17.06.2022	
	Expert Name	Honorarium Amount (Rs.)
Lecture 1	Ms. Maneesha Sharma	Rs. 3000/- (includes TDS Rs. 300)
Lecture 2	Mr. D. Thiyagaraja Guptha	Rs. 3000/- (includes TDS Rs. 300)
Total (session-1)		Rs. 6000/-
Session -2		
Date:	18.07.2022	
Lecture 1	Mr. Bharathiraja Thangappalam	Rs. 3000/- (includes TDS Rs. 300)
Lecture 2	Mr. M. Sriraman	Rs. 3000/- (includes TDS Rs. 300)
Total (session-2)		Rs. 6000/-
Total Amount (Session 1 + Session 2)		Rs. 12000/-

Certified that I have satisfied myself that the conditions on which the Fund was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised:

1. Expenditure is a per the guidelines of Impact lecture Series Scheme (online mode)
2. Event reports, Receipts/Bills, transaction proof, copy of Institute PAN card along with the mandate form is also submitted online (IIC portal) and have to be submitted by post
3. TDS must be deducted by the Institute before releasing Honorarium amount to the experts as per the Income Tax Act (10%)

[Signature of Chartered Accountant*/Registrar**
/Finance Officer**/Govt. Auditor**]
Name of CA : M. Ram. Samy
Membership No. : _____
Full Address : _____
   M. RAMASAMY
   ACCOUNTS MANAGER
[with seal]
(*In case of Private Institutions/Self-financing Institutions
**In case of government Institutions)
   SVCET.

Place:

[Signature of Head of the Institute]
Name : Dr.S.Pradeep Devaneyan
Designation : Principal
Full Address : _____
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NAAC

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TITLE:

DETECTING SPAM IN E-MAIL

ABSTRACT:

Spam detection methods can be divided into expert based and machine learning based. This method is highly time consuming and expensive using machine learning have the advantage of automation, but accuracy is relatively low. To reduce the workload all messages the first analyzed primary machine learning filter. The normal messages are allowed suspicious messages are flagged. Flagged messages are subsequently analyzed cost based machine learning is used to prevent error spam messages. The results of experimental an imbalance dataset of spam tweets and normal tweets in real life.The proposed framework a spam detection rate 92.81. Social network messages changed continuously large performance deviations. Email has traditionally regarded the most powerful medium in online networks Twitter spam a new type of functionality. we purpose multi objective genetic algorithm and CNN based deep learning algorithm. The users can discuss, connect and share links with other online social media users. particular twitter most popular social network servers than best communication channel. the experimental details and results discussions proposed [MOGA-CNN-DLAS] in terms accuracy, precision the ratio of training data center the utilization three real datasets.

MODULES:

1.Login:
The user will login to the main page with his registered name and password. Once the user successfully login the authorized page will be displayed otherwise that shows the error messages. Login is compulsory.

2. Registration:
First time while using the website the user or the individual should get registered into it, by registering this will help to maintain separate account for each user.

3. Compose Input:
The sender will compose the new email; the sender should add the address of the recipient, the subject and the message. Output: the email will be sent based to the address mentioned by the recipient

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4. Inbox:

This page will store all of the mails received by user. All the received Mails will be listed sorted in order of date. Input: the inbox page will accept all the incoming emails sent to an individual.

5. Sent:

This folder stores all the mails sent from the user. Input: here the sender will compose an email and send to the recipient. Output: Sent email can be read out.

6. Trash:

This folder will store all of mails deleted by the user Input: select and Delete all the unwanted emails. Output: all the deleted emails are added in the trash bin. Trash bin stores all the deleted emails.

7 .Voice Message Input:

The Email has been sent in the form of the text message by the sender Output: The email has been read through the use of voice note by the receiver.

8 .Offline notification Input:

The sender sends an email Output: the receivers receive a notification offline in the text format as SMS.

9.Delete For everyone Input:

Here the sender deletes the email which he has sent Output: the email has been erased or deleted for both the sender as well as the receiver,

10. Read Message Input:

The receiver will read the email. Output: the sender will get a notification stating the sender as read the message. When we receive message in the inbox, that message will be exported to dataset. This message will be detected as spam or not using Naïve Bayes Classifier. Before detecting whether received message is spam or not, the model has to be trained which is explained in the below section.

11. Decision Tree Classification:

Decision Tree classifier builds a tree based on which classification can be done. The tree is built recursively until a fixed number of minimum nodes.

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Page 2

CONCLUSION:

Email has been the most important medium of communication nowadays, through internet connectivity any message can be delivered to all over the world. More than 270 billion emails are exchanged daily, about 57% of these are just spam emails. Spam emails, also known as non-self, are undesired commercial or malicious emails, which affects or hacks personal information like bank, related to money or anything that causes destruction to single individual or a corporation or a group of people. Besides advertising, these may contain links to phishing or malware hosting websites set up to steal confidential information. Spam is a serious issue that is not just annoying to the end-users but also financially damaging and a security risk. Hence this system is designed in such a way that it detects unsolicited and unwanted emails and prevents them hence helping in reducing the spam message which would be of great benefit to individuals as well as to the company. In the future this system can be implemented by using different algorithms and also more features can be added to the existing system.

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Page 3