GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN

Kommadi, Madhurawada, Visakhapatnam 530 048
(Approved by AICTE, New Delhi, Affiliated to Andhra University, Visakhapatnam)
(Accredited by National Board of Accreditation [NBA] for B.Tech CSE, ECE and IT - valid from 2019-22 and 2022-25)
(Accredited by National Assesment and Accreditation Council [NAAC] with A Grade - valid from 2022-2027)
Phone: +91-891-2739144, 2739124, 2719125, 2719127 Email id: gvpcew@gmail.com, info@gvpcew.ac.in

EAPCET Councelling Code
GVPW

Department of Computer Science and Engineering (AI & ML)

ABSTRACT REVIEW

2021-25 Batch Main Project Teams

S.No	Roll No.	Batch No.	Name of the Student	Project Title	Name of the Guide	Signature of the Student
1	21JG1A4214	B1	GORTHI SRI SIVAANANDINI	Neurological Disorder Detection & classification using Deep learning Techniques with EEG Signals	Dr. Dwiti Krishna Bebarta	Gorthi Sivaanandini
2	21JG1A4240		NAREMSETTI SHARMILA			N. Sharmila
3	21JG1A4203		BANDARU SHWETA EVANGELINE			Evangel
4	21JG1A4228	B2	MALLIPEDDI PRASANTHI	Respiratory Disorder Classification using Lung Ascultation Sounds	Dr. M R K Krishna Rao	M. Prasanthi
5	21JG1A4230		MANYAPURI TEJASWINI			M. Tejaswini
6	21JG1A4241		NIDAMANURI SIRISHA			N. Sirisha
7	21JG1A4227	B3	MALLA ESHA THANIYA	Sustainable Energy solutions: Predicting Residential Electricity consumption using Deep Learning Techiques	Dr. K. Purushotam Naidu	M. Esha Thaniya
8	21JG1A4257		TOOPATI DURGA PRASANNA			T. Durga prasanna
9	21JG1A4244		PODUGUMATI SUSMITHA			P. Sushmitha.
10	20JG1A4233		N JAYAVARDHINI			Jaya
11	21JG1A4217	B4	GUNIMANIKALA SURYA JAYA SRI	An AI-Driven hybrid system for disease prediction and personalized drug recommendation	Mrs. D. Balasantoshimata	G. S Jayasri
12	21JG1A4255		TAMMINA KANCHANA REKHA			T. K. Rekha
13	21JG1A4213		GOLUSU EVANGELINE			G. Evangeline
14	21JG1A4261		VADLAMUDI DHANISHYA			V. Dhanishya

15	22JG5A4203	B5	MEESALA GEETHA GAYATHRI		Mrs. H Gouthami	
16	21JG1A4247		POTLADA SWATHI SINDHUJA			
17	21JG1A4248		REDDI RENUKA SAI			
18	21JG1A4204		BONELA PRAVEENA			
19	21JG1A4262	B6	VOLETI VAISHNAVI	GenSense: Scalable Gender Detection from Hand palm Image using PySpark and DL Techniques	Dr. K. Purushotam Naidu	
20	21JG1A4223		KODIDASU YETENDRIYA LAMANI			
21	21JG1A4246		POSHITHA INAGANTI			
22	21JG1A4218		JAMI SOWMYA			
23	21JG1A4206	B7	CHATTI ANU SRI		Mrs. M Sujatha	
24	21JG1A4258		TRISHA JENNA			
25	21JG1A4259		UPPALAPATI PRAPADHYA			
26	21JG1A4202		ANNAM NAGA SAI MALLIKA			
27	21JG1A4226	B8	KORIBILLI PALLAVI	Deep Learning based Accident Detecting Leveraging CCTV Footage And Scene Annotations	Dr. Dwiti Krishna Bebarta	
28	21JG1A4250		S S N SATVI ABHIGNYA NADAKUDI			
29	21JG1A4222		KATIKIREDDI SRIVAISHNAVI			
30	21JG1A4235		MUDIDANA NANDINI			
31	21JG1A4236	B9	MULUPURI VENKATA MEGHANA	Stock Market prediction using ML & DL	Dr. M R K Krishna Rao	
32	22JG5A4202		KOKKILIGADDI MYTHILI			
33	21JG1A4252		SIVATHA BALA CHINMAYI SISTA			
34	21JG1A4220		JUSTIN JESLIN			

35	21JG1A4253	B10	SURAPANENI DEEPIKA CHOWDARI		Mr. P Shiva	S. Deepika
36	21JG1A4219		JETTI SRAVANTHI			J. Sravanthi
37	21JG1A4209		DIKKALA MANASA PRANEETHA			Dikkala Praneetha
38	21JG1A4237		NAGARA KEERTHANA			N. Keerthana
39	21JG1A4232	B11	MOHAMMAD BASHEERA SULTANA	Harnessing Deep Learning for Stock price prediction	Mrs. D. Balasantoshimata	MD. Basheera
40	21JG1A4224		KOLA INDU			K. Indu
41	21JG1A4254		TALLURI SAI SREE MOKSHA			Moksha. T
42	22JG5A4206		GUMMADI MEGHANA			G. Meghana
43	21JG1A4231	B12	MOGILIPURI KEERTHI	~~M. Keerthi~~ Intelligent Vehicle Damage Assessment & cost estimator for insurance companies	Mrs. H Gouthami	M. Keerthi
44	21JG1A4233		MOHAMMED ARSHIYA FIRDOUS			MD. Arshiya
45	21JG1A4211		GADIRAJU SATVIKA			G. Satvika
46	21JG1A4238		NALLA SRI RAMYA			N. Sri Ramya
47	21JG1A4239	B13	NANDURI SAI HARIKA	Seamless image to speech transformation with advanced neural network and generate the models for intuitive human ~~vision~~ machine interaction	Dr. K. Purushotam Naidu	N. Sai Harika
48	21JG1A4242		PAALURU DIVYA			P. Divya
49	21JG1A4212		GODAVARTHI SRI CHAAHNA			G. Chaahna
50	21JG1A4208		DEVARAPALLI SANJANA			D. Sanjana
51	21JG1A4210	B14	EJJADA NANDINI		Mrs. M Sujatha	E. Nandini
52	21JG1A4207		CHINTAPALLI MEENAKSHI			Ch. Meenakshi
53	21JG1A4260		VADDADI BHAVANAESWARI SPOO			V. B. Spoorthi
54	21JG1A4243		PENTAPATI RAJ TANUJA			P. Raj Tanuja

55	21JG1A4201	B15	AMIRISETTI LAKSHMI PRASANNA	Non-Invasive Blood group detection via Fingerprint Biometrics using Deep learning techniques	Dr. Dwiti Krishna Bebarta	A L Prasanna
56	21JG1A4221		KASARAPU HARSHITHA			Harshitha
57	21JG1A4234		MOTHIKIVALASA THANUSHYA			M Thanushya
58	21JG1A4251		SEERAPU YAMINI			S. Yamini
59	22JG5A4201	B16	KAKI ROSHINI	Driver Drowsiness Detection- An Approach Using OpenCv & CNN.	Dr. M R K Krishna Rao	Roshini.
60	21JG1A4263		YAVANAMANDA SRI PHANI KOUSALYA			Y. Kousalya
61	22JG5A4205		RAVADA NAGA SUPRIYA			R. Naga supriya.
62	21JG1A4215		GUDIVADA DEEKSHITHA			Deekshi
63	21JG1A4229	B17	MANDAPATI YASASWINI	Integrating Block Chain for Smart City Applications	Dr. K. Purushotam Naidu	M. Yasaswini
64	21JG1A4205		BONI PUJITHA			B. Pujitha.
65	21JG1A4216		GUGGILI SIREESHA			G. Sireesha
66	22JG5A4204		PALLAPATI BHAVITHA			P. Bhavitha
67	21JG1A4245	B18	POLAROUTHU TULIKA LAKSHMI	Gesture to Text - A Deep learning Approach to sign language interpretation.	Mr. P Shiva	P. Tulika
68	21JG1A4256		TELUKALA ANITHA			T. Anitha
69	21JG1A4225		KOLLURU BHARATHI			Bharathi
70	21JG1A4249		REDDY DIVYA VARSHITHA			Varshitha.

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2021-25 Batch Project Review-II Student Signatues Date:02-04-2025

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2	21JG1A4240		NAREMSETTI SHARMILA			N.sharmila
3	21JG1A4203		BANDARU SHWETA EVANGELINE			Evangel
4	21JG1A4228	B2	MALLIPEDDI PRASANTHI	Respiratory Disorder Classification using Lung Auscultation Sounds	Dr. M R K Krishna Rao	M.Prasanthi
5	21JG1A4230		MANYAPURI TEJASWINI			M.Tej
6	21JG1A4241		NIDAMANURI SIRISHA			N. Sirisha
7	21JG1A4227	B3	MALLA ESHA THANIYA	Sustainable Energy Solutions:Predicting Residential Electricity Consumption Using DeepLearning Techniques	Dr. K. Purushotam Naidu	M.Esha
8	21JG1A4257		TOOPATI DURGA PRASANNA			T.Prasanna
9	21JG1A4244		PODUGUMATI SUSMITHA			P.Susmitha
10	20JG1A4233		N JAYAVARDHINI			Jay
11	21JG1A4217	B4	GUNIMANIKALA SURYA JAYA SRI	An AI-Driven Hybrid System for Disease Prediction and Personalized Drug Recommendations	Mrs. D. Balasantoshimata	Jayasri
12	21JG1A4255		TAMMINA KANCHANA REKHA			T.K.Rekha
13	21JG1A4213		GOLUSU EVANGELINE			G.Evangeline
14	21JG1A4261		VADLAMUDI DHANISHYA			V.dhanishya

15	22JG5A4203	B5	MEESALA GEETHA GAYATHRI	Gesture and Voice control based virtual mouse using Deep Learning Techniques	Mrs. H Gouthami	M. Geetha
16	21JG1A4247		POTLADA SWATHI SINDHUJA			Sindhuja
17	21JG1A4248		REDDI RENUKA SAI			R. Renuka
18	21JG1A4204		BONELA PRAVEENA			B. Praveena
19	21JG1A4262	B6	VOLETI VAISHNAVI	Palm forensics: AI-Driven gender detection from palm images for Crime Analysis GenSense: Scalable Gender Detection from Hand Palm Images using PySpark and Advanced Image Processing	Dr. K. Purushotam Naidu	V. Vaishnavi
20	21JG1A4223		KODIDASU YETENDRIYA LAMANI			K. Yetendriya
21	21JG1A4246		POSHITHA INAGANTI			P. Poshitha
22	21JG1A4218		JAMI SOWMYA			J. Sowmya
23	21JG1A4206	B7	CHATTI ANU SRI	A Non-Invasive Approach to Cardiovascular Disease Prediction Using Retinal Imaging and Machine Learning	Mrs. M Sujatha	Ch. Anu Sri
24	21JG1A4258		TRISHA JENNA			Trishna
25	21JG1A4259		UPPALAPATI PRAPADHYA			Prapadhya
26	21JG1A4202		ANNAM NAGA SAI MALLIKA			A. Mallika
27	21JG1A4226	B8	KORIBILLI PALLAVI	Deep Learning-Based Accident Detection Leveraging CCTV Footage and Scene Annotations	Dr. Dwiti Krishna Bebarta	K. Pallavi
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29	21JG1A4222		KATIKIREDDI SRIVAISHNAVI			Navaishnavi
30	21JG1A4235		MUDIDANA NANDINI			Vaishnavi
31	21JG1A4236	B9	MULUPURI VENKATA MEGHANA	Predicting Stock Market Trends Using Machine Learning and Deep Learning	Dr. M R K Krishna Rao	M. V. Meghana
32	22JG5A4202		KOKKILIGADDI MYTHILI			K. Mythili
33	21JG1A4252		SIVATHA BALA CHINMAYI SISTA			Chinmayi
34	21JG1A4220		JUSTIN JESLIN			Jeslin

35	21JG1A4253	B10	SURAPANENI DEEPIKA CHOWDARI	Privacy-Preserving Federated Learning: Balancing Privacy and Model Performance	Mr. P Shiva	S. Dipika
36	21JG1A4219		JETTI SRAVANTHI			J. Sravanthi
37	21JG1A4209		DIKKALA MANASA PRANEETHA			D. Manasa
38	21JG1A4237		NAGARA KEERTHANA			N. Keerthana
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45	21JG1A4211		GADIRAJU SATVIKA			G. Satvika
46	21JG1A4238		NALLA SRI RAMYA			N. Sri Ramya
47	21JG1A4239	B13	NANDURI SAI HARIKA	Seamless Image-to-Speech Transformation with Advanced Neural Networks and Generative Models for Intuitive Human-Machine Interaction	Dr. K. Purushotam Naidu	
48	21JG1A4242		PAALURU DIVYA			P. Divya
49	21JG1A4212		GODAVARTHI SRI CHAAHNA			
50	21JG1A4208		DEVARAPALLI SANJANA			Sanjana
51	21JG1A4210	B14	EJJADA NANDINI	Securing UPI Transactions:A Data-Driven Approach to Fraud Detection using Machine Learning,Deep Learning and Explainable AI	Mrs. M Sujatha	E. Nandini
52	21JG1A4207		CHINTAPALLI MEENAKSHI			Ch. Meenakshi
53	21JG1A4260		VADDADI BHAVANAESWARI SPOO			V. Bhavana
54	21JG1A4243		PENTAPATI RAJ TANUJA			P. Raj Tanuja

55	21JG1A4201	B15	AMIRISETTI LAKSHMI PRASANNA	Non-Invasive Blood Group Detection via Fingerprint Biometrics Using Deep Learning Techniques like CNN,GAN,Gabor Filters,and Image Processing	Dr. Dwiti Krishna Bebarta	
56	21JG1A4221		KASARAPU HARSHITHA			K. Harshitha
57	21JG1A4234		MOTHIKIVALASA THANUSHYA			Thanushya
58	21JG1A4251		SEERAPU YAMINI			Yamini
59	22JG5A4201	B16	KAKI ROSHINI	Driver Drowsiness Detection-An Approach using OpenCV and CNN	Dr. M R K Krishna Rao	Roshini.
60	21JG1A4263		YAVANAMANDA SRI PHANI KOUSA			Y.S.P. Kousalya
61	22JG5A4205		RAVADA NAGA SUPRIYA			R. Nagasupriya
62	21JG1A4215		GUDIVADA DEEKSHITHA			G. Deekshitha
63	21JG1A4229	B17	MANDAPATI YASASWINI	Integrating Block-Chain with Smart Cities Applications Using ML	Dr. K. Purushotam Naidu	M. Yasaswini
64	21JG1A4205		BONI PUJITHA			B. Pujitha.
65	21JG1A4216		GUGGILI SIREESHA			G Sireesha
66	22JG5A4204		PALLAPATI BHAVITHA			P. Bhavitha
67	21JG1A4245	B18	POLAROUTHU TULIKA LAKSHMI	Gesture to Text-A Deep Learning Approach to Sign Language Interpretation	Mr. P Shiva	P. Tulika
68	21JG1A4256		TELUKALA ANITHA			T. Anitha
69	21JG1A4225		KOLLURU BHARATHI			K. Bharathi
70	21JG1A4249		REDDY DIVYA VARSHITHA			R. Divyavarshitha

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3	21JG1A4203		BANDARU SHWETA EVANGELINE			B. Shweta
4	21JG1A4228	B2	MALLIPEDDI PRASANTHI	Respiratory Disorder Classification using Lung Auscultation Sounds	Dr. M R K Krishna Rao	M. Prasanthi
5	21JG1A4230		MANYAPURI TEJASWINI			M. Tejaswini
6	21JG1A4241		NIDAMANURI SIRISHA			N. Sirisha
7	21JG1A4227	B3	MALLA ESHA THANIYA	Sustainable Energy solutions: Predicting residential electricity consumption using deep learning techiques	Dr. K. Purushotam Naidu	M. EshaThaniya
8	21JG1A4257		TOOPATI DURGA PRASANNA			T. Durgaprasanna
9	21JG1A4244		PODUGUMATI SUSMITHA			P. Susmitha
10	20JG1A4233		N JAYAVARDHINI			N. Jayavardini
11	21JG1A4217	B4	GUNIMANIKALA SURYA JAYA SRI	AI driven hybrid system for disease prediction & drug recommendation	Mrs. D. Balasantoshimata	G. Sri.
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18	21JG1A4204		BONELA PRAVEENA			B. Praveena
19	21JG1A4262	B6	VOLETI VAISHNAVI		Dr. K. Purushotam Naidu	V. Vaishnavi
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21	21JG1A4246		POSHITHA INAGANTI			Poshitha. I
22	21JG1A4218		JAMI SOWMYA			J. Sowmya
23	21JG1A4206	B7	CHATTI ANU SRI		Mrs. M Sujatha	
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25	21JG1A4259		UPPALAPATI PRAPADHYA			Upp
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36	21JG1A4219		JETTI SRAVANTHI			J. Sravanthi
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43	21JG1A4231	B12	MOGILIPURI KEERTHI	Intelligent Vehicle damage assessment and cost estimation for insurance companies	Mrs. H Gouthami	M. Keerthi
44	21JG1A4233		MOHAMMED ARSHIYA FIRDOUS			Md. Arshiya
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51	21JG1A4210	B14	EJJADA NANDINI	Securing UPI Transactions	Mrs. M Sujatha	E. Nandini
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56	21JG1A4221		KASARAPU HARSHITHA			
57	21JG1A4234		MOTHIKIVALASA THANUSHYA			
58	21JG1A4251		SEERAPU YAMINI			S. Yamini
59	22JG5A4201	B16	KAKI ROSHINI	Driver Drowsiness Detection using An approach of CNN & Transfer Learning	Dr. M R K Krishna Rao	Roshini.
60	21JG1A4263		YAVANAMANDA SRI PHANI KOUSA			Kousalya
61	22JG5A4205		RAVADA NAGA SUPRIYA			R.N. Supriya
62	21JG1A4215		GUDIVADA DEEKSHITHA			G. Deekshitha
63	21JG1A4229	B17	MANDAPATI YASASWINI	A framework for Integrating Blockchain and machine learning in smart city applica-tions	Dr. K. Purushotam Naidu	M. Yasaswini
64	21JG1A4205		BONI PUJITHA			B. Pooja
65	21JG1A4216		GUGGILI SIREESHA			G. Sireesha
66	22JG5A4204		PALLAPATI BHAVITHA			P. Bhavitha
67	21JG1A4245	B18	POLAROUTHU TULIKA LAKSHMI	Gesture to Text — A Deep Learning approach to Sign Language interpretation	Mr. P Shiva	P. Tulika
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69	21JG1A4225		KOLLURU BHARATHI			K. Bharathi
70	21JG1A4249		REDDY DIVYA VARSHITHA			R. Divya Varshitha

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Department of Computer Science and Engineering (AI & ML)

PROJECT ABSTRACT – [ADMITTED BATCH: 2021-2025]

YEAR & BRANCH: IV B. TECH. - COMPUTER SCIENCE AND ENGINEERING (AI&ML)	BATCH NO. : B1	SECTION : I

BATCH DETAILS:

S. No.	Student Regd. No.	Student Name
1	21JG1A4214	Gorthi Sri Sivaanandini
2	21JG1A4240	Naremsetti Sharmila
3	21JG1A4203	Bandaru Shweta Evangeline

PROJECT GUIDE NAME:	PROJECT TITLE:
Dr Dwiti Krishna Bebarta	Neurological Disorder Detection and Classification using Deep Learning Techniques with EEG Signals

ABSTRACT:

Diagnosing and managing neurological disorders can be difficult which requires novel approaches for these goals. Electroencephalography (EEG) is an important method which identifies abnormal brain patterns, and is used alongside treatment since it understands brain deviations. This project outlines the framework of automating both the detection and head analysis of neurological diseases using EEG signals. It presents researchers, clinicians and developers with a framework that inspects, modifies and creates scalable systems that have the ability to provide input swiftly and in real time. This framework incorporates sophisticated machine learning, image processing, and deep learning methods to evaluate EEG signals, obtaining crucial data via pre-processing and feature extraction. In order to achieve greater optimization of the model's parameters, optimization algorithms are employed into the distributed multi-objective practices. This technology offers fast, cost effective, non-invasive diagnostics systems that optimally aid doctors and enhance the out comings of patients' cases.

Keywords: EEG, CNN, LSTM, neurological disorders, optimization

DOMAINS WHERE THE PROJECT CAN BE IMPLEMENTED:

- Healthcare
- Research
- Medical training

IMPLEMENTATION:

The system preprocesses EEG signals to extract key features. The dataset is split into training and validation sets for effective model training with a convolutional neural network (CNN), LSTM. After training, optimization algorithms are applied to improve the model accuracy.

PRINCIPLE IDEA:

The principal idea of this project is to develop AI driven framework for automated recognition and classification of neurological diseases using EEG signals.

VISION:

The vision of this project is to detect neurological disorders with an accurate, non-invasive and scalable EEG solution.

BASE REFERENCE PAPER DETAILS:

TITLE: Epileptic Seizure Recognition Using Reduced Deep Convolutional Stack Autoencoder and Improved Kernel RVFLN from EEG Signals

PUBLISHED YEAR: June 2021

JOURNAL NAME: IEEE TRANSACTIONS ON BIOMEDICAL CIRCUITS AND SYSTEMS, VOL.15, NO.3

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PROJECT ABSTRACT – [ADMITTED BATCH: 2021-2025]

YEAR & BRANCH: IV B. TECH. - COMPUTER SCIENCE AND ENGINEERING (AI&ML)	BATCH NO. : B2	SECTION : I

BATCH DETAILS:

S. No.	Student Regd. No.	Student Name
1	21JG1A4228	Mallipeddi Prasanthi
2	21JG1A4230	Manyapuri Tejaswini
3	21JG1A4241	Nidamanuri Sirisha

PROJECT GUIDE NAME:	PROJECT TITLE:
Dr M R K Krishna Rao	Respiratory Disorder Classification using Lung Auscultation Sounds

ABSTRACT:

Respiratory sounds act as essential indicators of respiratory health, providing insights into air movement, lung tissue alterations, and secretions within the lungs. This study focuses on classifying respiratory disorders by analyzing these sounds, with a particular emphasis on wheezing, which is frequently associated with obstructive airway diseases such as asthma and chronic obstructive pulmonary disease (COPD). By utilizing digital stethoscopes and advanced recording techniques, a comprehensive dataset of lung sounds is compiled for processing through machine learning algorithms aimed at automated diagnosis. The integration of audio data with deep learning methodologies enables accurate identification of various respiratory conditions, including asthma, pneumonia, and bronchiolitis. The research aspires to enhance diagnostic precision and improve patient outcomes in respiratory healthcare by predicting the likelihood of specific disorders based on sound analysis. Furthermore, the system aims to provide probability rates alongside predictions, which can assist healthcare professionals in making informed clinical decisions. Ultimately, this work underscores the transformative potential of technology in advancing clinical practices and facilitating early intervention strategies for respiratory ailments, paving the way for more effective management of respiratory health.

DOMAINS WHERE THE PROJECT CAN BE IMPLEMENTED:

- Healthcare
- Telemedicine
- Research
- Medical training
- Wearable technology

IMPLEMENTATION:

The respiratory disorder classification system preprocesses audio recordings to extract key features like Mel-frequency cepstral coefficients (MFCCs) using TensorFlow and Keras. The dataset is split into training and validation sets for effective model training with a convolutional neural network (CNN). After training, the model predicts respiratory disorders and their associated probability rates from new audio samples. This system is deployed via a Flask web application, allowing users to upload lung sound recordings and receive real-time diagnostic predictions.

PRINCIPLE IDEA:

The principal idea of this project is to utilize deep learning techniques for classifying respiratory disorders by analyzing lung sounds. By leveraging a diverse dataset of patient recordings, the model aims to identify patterns linked to conditions such as asthma, COPD, pneumonia, and URTI while providing probability rates for each diagnosis to support clinical decision-making.

VISION:

The vision of this project is to transform respiratory health diagnostics by integrating advanced deep learning technologies into clinical practice. By enabling accurate and timely identification of respiratory disorders through sound analysis, we aim to enhance patient outcomes and expand access to diagnostic tools in underserved areas via telemedicine solutions.

BASE REFERENCE PAPER DETAILS:

TITLE: An Effective Lung Sound Classification System for Respiratory Disease Diagnosis Using DenseNet CNN Model with Sound Pre-processing Engine

PUBLISHED YEAR: 16 November 2022

JOURNAL NAME: IEEE Access

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PROJECT ABSTRACT – [ADMITTED BATCH: 2021-2025]

YEAR & BRANCH: IV B. TECH. – COMPUTER SCIENCE AND ENGINEERING (AI&ML)	BATCH NO. : 3	SECTION: 1

BATCH DETAILS:

S.No.	Student Regd. No.	Student Name
1	21JG1A4227	M. Esha Thaniya
2	21JG1A4257	T. Durga Prasanna
3	21JG1A4244	P. Susmitha
4	20JG1A4233	N. Jayavardhini

PROJECT GUIDE NAME:
Dr. K. Purushottam Naidu

PROJECT TITLE:
Sustainable Energy Solutions: Predicting Residential Electricity Consumption using Deep Learning Techniques

ABSTRACT:

Residential electricity consumption has significantly increased due to global population growth, urbanization, and the widespread use of household appliances, creating challenges in maintaining stable power supplies. This project presents a deep learning-based approach for accurately predicting residential electricity consumption, addressing the challenges posed by population growth, urbanization, and increased use of household appliances. The model leverages advanced techniques such as Convolutional Neural Networks (CNN), Bidirectional Long Short-Term Memory (BiLSTM), and Self-Attention (SA) to enhance prediction accuracy. Using a comprehensive dataset from UCI, the model demonstrated high predictive accuracy, outperforming traditional methods. Data preprocessing through normalization and a sliding window technique preserves temporal dynamics, while CNN layers extract spatial features, refined by BiLSTM layers to capture long-term temporal dependencies in both directions. The model is evaluated using real-world electricity consumption datasets and demonstrates superior performance compared to traditional forecasting methods. By enabling precise and reliable predictions, this approach contributes to optimizing energy distribution, reducing the risk of power outages, and enhancing sustainability in energy management.

DOMAINS WHERE THE PROJECT CAN BE IMPLEMENTED:

- Renewable Energy Integration
- Residential Energy Monitoring
- Utility Companies

IMPLEMENTATION:

This project employs a hybrid deep learning framework to accurately predict residential electricity consumption, integrating advanced algorithms for enhanced performance. It combines the deep learning models like CNN and BiLSTM, leveraging their strengths in capturing spatial, temporal, and intrinsic features. Data preprocessing and denoising are optimized using the Stationary Wavelet Transform (SWT) with the bior2.4 filter to isolate relevant trends. This hybrid approach provides a robust solution for forecasting energy demand with high accuracy across various time intervals.

PRINCIPLE IDEA:

This project aims to enhance residential electricity consumption forecasting by integrating CNN, LSTM, and BiLSTM-SA models with data denoising using Stationary Wavelet Transform (SWT). The approach improves accuracy and reliability, optimizing energy management and grid stability

VISION:

To build a reliable and efficient energy management system by leveraging advanced deep learning techniques, enabling precise electricity consumption forecasting to optimize power distribution and ensure grid stability.

BASE REFERENCE PAPER DETAILS:

TITLE: PREDICTING RESIDENTIAL ELECTRICITY CONSUMPTION USING CNN-BILSTM-SA NEURAL NETWORKS

PUBLISHED YEAR: 2024

JOURNAL NAME: IEEE ACCESS

Project Guide

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