MANNE SIVA KRISHNA | 21ME61R13

MANUFACTURING SCIENCE AND ENGINEERING

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2023	M.TECH	IIT Kharagpur	7.90 / 10
2019	B.TECH	Prasad V. Potluri Siddhartha Institute Of Technology	6.97 / 10
2015	Intermediate	Narayana Juniour College	90.7%
2013	SSC	Sri Ushodaya Public School	9.3 / 10

SKILLS AND EXPERTISE

Programing Langauge: Python|**Libraries :** Pandas,Numpy,Seaborn, Matplotlib, Scikit-learn|EDA-Exploratory Data Analysis.|SQL|Machine learning|NLP(Natural Language Processing)|Basic Deep learning.|Auto_CAD|CAM|Minitab|**Microsoft Office:** Word, Excel, Power Point.

PROJECTS

Machine learning PROJECT:Performance Comparison of Multiple Classification Algorithms on Heart Disease Data Set.
- Collected raw data from the Kaggle, performed Exploratory Data Analysis (EDA) to summarize.
- Cleaned and preprocessed data using Pandas, NumPy to gain the information about 14 features dependency.
- Visualized dependancy of 14 features of data set with the aid of Seaborn and Matplotlib.
- Classification of heartdisease prediction using SVM, Decision Trees, RandomForests, XGBOOST, Extratree, lgbm classifier algorithms.
- Stacking Classifier was built using RandomForests,XGBOOST,Extratree,lgbm as base classifier's.
- Fine-tuned hyperparameters, achieved a maximum accuracy of 94.02% and F1 Score of 95.12 in case of XGBoostClassifier.

Forecasting Index Price of NIFTY_50 Using Machine learning and Deep learning models:
- Collected raw data of Nifty_50 directly from the yahoo finance using yfinance module, performed Exploratory Data Analysis (EDA) to summarize.
- Cleaned and preprocessed data using Pandas, NumPy to gain the information about 4 features dependency.
- Visualized dependancy of 4 features of data set with the aid of Seaborn and Matplotlib.
- Created new features and append the new features to the existing data.
- Plotted pair plots and heat maps to gather insights about data.
- Forecasting is done using Multiple linear regression , Support vector Regression and the Long-Short term memory (LSTM) models.

Data Analytics PROJECT:Exploratory Data Analysis on Indian Loksabha elections data from 1977 to 2015.
- Collected historical dataset on theLoksabha elections from Kaggle, analysed data and identified the presence of null values.
- Carried out Exploratory analysis with Pandas, visualizations were done with the use of Matplotlib and Seaborn Libraries in Python.
- Plotted bar charts, PDF,CDF,and heat maps to gather insights about data(partyabbre,totvotpoll,electorsetc).

Course Project:AutomatedGuidedVehicleforInventoryManagement| Mechatronics Lab. [Jan'22-Mar'22]
- Developed a working model of **AGV**using the IR sensor,Ultrasonic sensor,weight sensor and Arduino Uno.
- Tested circuit connections with aid of Tinkercad software.

CERTIFICATIONS

- Mathematics for Machine Learning: Linear Algebra offered by Imperial College London | Coursera
- Python for Data science offered by Cognative Classes.
- SQL and Relational Databases offered by Cognative Classes.
- Auot_CAD offered by Andhra Pradesh State Skill Development Corporation(APSSDC).

COMPETITION/CONFERENCE

- Got 3rd prize for our Model in a Model presentaion organised by Gora Science Cnter. [Dec'17]
- Participated in 3D printing workshop Mechanical Engineering Department ofPrasad V. PotluriSiddhartha Institute of Technology.[Aug'17]
- Got 3rd prizein a technical quize organised by Vignan University. [Jan'17]
- Participate in Model Presentation at Velagapudi Ramakrishna Siddhartha Engineering College organised by ABVP. [Mar'16]
- Got 1st prize in NRC India Robotics Championship Organised by ARK Technosolutions and Robokart. [Jan'15]

AWARDS AND ACHIEVEMENTS

- Secured an All India Rank-48 in GATE Production &Industrial. **[Mar'20]**

POSITIONS OF RESPONSIBILITY

Represented as a Student coordinator at the Departmental level. **[Jul'17-Mar'19]**
Volunteeredas student placement coordinator at the training and placement cell. **[Jan'18]**

COURSEWORK INFORMATION

Big Data Processing|Robotics|Intelligent Machines and Systems|Knowledge Based Systems in Engineering|Monitoring and Controlling of manufacturing systems|Modern Manufacturing Process.

EXTRA CURRICULAR ACTIVITIES

- I am interested in Cooking,Cycling, interacting with people from various fields.
- I am interested in trading and keep updating myself about Indian financial markets.

!Self declared by the student, CDC could not verify the relevant documents