Manan Padsala

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EDUCATION

B.Tech Computer Science and Engineering CPI-8.39 | 2020-2024
Rajiv Gandhi Institute of Petroleum Technology (IIT+)
Intermediate | Matriculation 93% | 2016-2020
Bright Day School

EXPERIENCE

CARTESI LABS | Data Science Fellowship | Jan 2023-Present

- Employing real-time data monitoring with IoT devices to analyze water resource utilization and detect wastage for African nations. Blockchain technology, specifically Cartesi Machine, is used to perform complex computations over big data.

PROJECTS

SENTIMENT ANALYSIS | Github Link Python, Scrapy, Multiprocessing, Data Analysis |

- Performed **web scraping,** data cleaning, sentiment analysis and multiprocessing to analyze a blog website with 100+ pages. The libraries used include requests, **BeautifulSoup, numpy, pandas, nltk,** enchant, re, glob, os, multiprocessing and pool to improve the **execution time by 70%.**

CUSTOMER SEGMENTATION | Github Link Python, EDA, Machine Learning, Deep Learning |

- Analyzing **E-commerce dataset** of user purchases to classify customers into **segments** and predict future purchases for new customers. Used **EDA** and classification algorithms such as **SVC, KNN, Logistic Regression, Decision Trees, and Random Forest** to classify the customers.

MUSIC RECOMMENDER SYSTEM | Github Link Tensorflow, PyTorch, Nature Language Processing |

- Implemented ML classification algorithms and libraries like **TensorFlow** and **PyTorch** for content-based filtering and deep learning, **behavioral patterns** and **NLP** for collaborative-based filtering to build a music player app with a **recommender system.**

STOCK PRICE PREDICTION | Github Link EDA, Neural Networks (LSTM) |

- Implemented a **LSTM** model to predict stock prices using financial data, preprocessed and cleaned it, **handling missing values,** and normalized numerical features. Evaluated model performance using **metrics** like mean squared error and compared with a baseline model.

SKILLS

Languages: Python, Java, C/C++, JavaScript
Strengths: Machine learning, Data Structures, Algorithms,Deep Learning, Natural Language Processing
Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scikit Learn, SciPy, TensorFlow, Keras, NLTK, BeautifulSoup, enchant, os, re, glob
Tools and Frameworks: Tableau, Scrapy, Git, GitHub, Matlab
Databases: MS Excel, SQL

ACHIEVEMENTS

- **Jee Advanced (2020) - AIR: 15745.**
- Among the **top 40 students** from **India** selected for ACM winter school 2022 on "Optimization for **Machine Learning** and **Operations Research".**
- Certificate of Appreciation - Among top **0.1 %** of the successful candidates in **Mathematics** (**100 %** in Grade X).
- **Gold Medalist** Abacus Learning Of Higher Arithmetic (ALOHA level-4).

POSITIONS OF RESPONSIBILITY

Training and Placement Coordinator CSE Department, RGIPT
Co-Founder & Vice President CodeChef, RGIPT
Secretary OWASP, RGIPT
Teaching Volunteer GyanArpan, RGIPT