Rajendran sp

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⭘ https://github.com/rajendransp133/

📅 30/10/2002

PROFILE

Aspiring AI/ML enthusiast with a strong foundation in machine learning algorithms, mathematical problem-solving, and optimization techniques. Proficient in Python, TensorFlow, and data analysis, with a dedication to mastering AI/ML skills. Eager to contribute to innovative AI projects and make a meaningful impact in the industry through data-driven insights and algorithmic solutions.

EDUCATION

CHELAMMAL Vidhyaashram CBSE School
CLASS XII,Percentage-93%
CLASS X,Percentage-87%

B.Tech[Information technology]
Government college of technology

2020 – 2024 | Coimbatore, India

CGPA--7.34

SKILLS

MATH *(CALCULAS,PROBABILITY,STATISTICS)*

python   **Numpy,pandas,matplotlib**

SQL   **EXCEL**

Data Cleaning, Visualization, and Manipulation

PROJECTS

Book-Recommender-System
Utilized Python to implement multiple recommendation system algorithms

- Such as *Popularity Based Recommender System (TOP 250), Collaborative Filtering, and Content-Based Filtering,* to provide book recommendations for users
- Conducted data *cleaning, manipulation, and analysis* on two datasets sourced from Goodreads

The Applications of Graph Theory to Investing
Code Implementation of a Research Paper

- construction of *correlation matrices* and identified strong and weak correlations between stocks.
- Utilized graph analysis techniques to produce *diversified portfolios* that consistently outperform the market during times of *economic stability*
- Using python library such as *numpy,pandas,matplotlib* analyzed the financial data(stock data)

PROFESSIONAL EXPERIENCE

Development and Implementation of Seat Allocation Mechanism in Python
TNEA(Tamil Nadu engineering admission),DoTe

04/2023 – present | chennai, india

- Successfully addressed a longstanding allocation problem that had persisted for 3-4 years within the Tamil Nadu Government Engineering Admission (TNEA) sector.
- Eliminated the need for time-consuming and labor-intensive manual allocation processes, reducing the allocation time from 10 days to 2 days and optimizing manpower utilization.
- Leveraged optimization techniques and algorithmic problem-solving skills, implementing a fully automated solution using the Pulp library in Python.
- Played a pivotal role in enhancing efficiency and accuracy in the allocation process, contributing to the overall improvement of TNEA's operations.

CERTIFICATES

GAME THEORY[COURSERA]
LEVEL 1 AND 2

NISM(National Institute of Securities Markets)
NISM Series V A

VOLUNTEER EXPERIENCE

Data Science Curriculum (research)
Statistics without borders[SWB] ,American Statistical Association (ASA)

03/2023 – 05/2023

- Conducted research to identify relevant textbooks and other teaching materials for Data Science topics
- Worked for university of Lagos, Nigeria along with professors associated to University of Sydney and MS. Ramaiah University, Bangalore