Dilan P

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Objective

Aspiring AI enthusiast, with a strong foundation in **Machine Learning**, **NLP**, **Data Science** and **Deep Learning**, seeking to secure a challenging position in an innovative organization where I can drive growth through my technical expertise and creative problem-solving, while continually evolving as a leader and contributing to the organization's visionary goals.

Skills Summary

- Strong expertise on the below listed technologies.
    - Languages: **Python, SQL, JavaScript, HTML & CSS, R, C++**
    - Frameworks: **Django, React, Pytorch, WordPress, Langchain, TensorFlow, Astro**
    - Developer Tools: **AWS, Firebase, Docker, Git, CUDA, Azure, Kubernetes, Hadoop, Figma, OpenVPN, Netlify**
    - Productivity Tools: **Microsoft Excel, PowerPoint, Word, LaTeX**
    - Libraries: **Pandas, NumPy, Matplotlib, Scikit-Learn, spaCy, SciPy**
    - Statistical Software: **MATLAB, SAS**
- Good interpersonal and communication skills
- Excellent troubleshooting and analytical skills
- Exceptional ability to quickly master new technologies
- Capable of working in a team and independently with responsibility and ownership

Education

Bachelor of Technology - Artificial Intelligence and Data Science (CGPA – 8.3) | 2020 -2024

Rajalakshmi Institute of technology, Chennai, Tamil Nadu, India

Experience

Research Assistant | Rajalakshmi Institution, Chennai, IN | Jun 2022 – Dec 2023

- Worked on projects that involved data collection, analysis, and interpretation using advanced ML algorithms and statistical models.
- Visualized complex datasets and results, making insights understandable.

- Designed experiments, coded in **Python** and **R**, and leveraged tools like **TensorFlow**, **PyTorch**, and **Scikit-learn** for model development and evaluation.
- Developed strong analytical thinking, problem-solving abilities, and a deep understanding of the ethical considerations in AI & DS research.

Projects

Stock Market Information Retrieval and Decision Support System | Langchain, CrewAi, Hive

- Developed a detailed summarizer for multiple information about company stock.
- Implemented with **GeminiPro LLM** and Web search data connected with **Langchain**, Stored in **Hadoop** architecture.
- Utilized **CrewAi** to implement multiple agents for processing input and output.

Stock Market Prediction and Dashboard Development | Pandas, Matplotlib, Power BI

- Developed a stock price prediction project using **LSTM** with multiple stock datasets.
- Implemented data preprocessing, **LSTM** model training, and developed an interactive dashboard with the help of **Power BI**.
- Used **Plotly Dash** for comprehensive stock analysis.

Emotion tweet detector | Tweepy, Pandas, Matplotlib

- Scope is when we provide a particular tweet to the ML model, it ranges as in rate the tweet's emotional condition as positive, negative or neutral.
- Deep Learning models like **TensorFlow** is used with the transformers architecture as Neural Network.
- **Matplotlib** is used for visualizing the performance and the distribution of emotions.

Hackathons

UNNATI | Intel | Nov 2023 – Jan 2024

- This project involved data preprocessing, cleaning, and normalization to ensure the dataset was ready for analysis.
- Provided a detailed dataset insight that identified key patterns, trends, and anomalies within the ADAS data.
- The report highlighted critical areas of interest such as sensor performance, vehicle behavior in different driving conditions, and the effectiveness of existing safety measures.
- **Matplotlib** was used to create interactive dashboards and visual representations of the findings.

- Through iterative analysis and feedback from the jury, identified multiple areas for enhancing the dataset and improving ADAS system performance.

TECHGIUM | Larsen and Toubro | Nov 2022 – Mar 2023

- Developed a novel state estimation method for LiPo batteries using estimation algorithms.
- The method focused on accurately predicting the state of charge (SoC) and state of health (SoH) of the batteries, addressing critical challenges in energy management systems.
- The EKF algorithm was chosen for its robustness in handling the non-linear dynamics of LiPo batteries, ensuring reliable and consistent performance under varying conditions.
- Integrated the developed state estimation method with **Arduino**, creating a cost-effective and scalable solution.

Certifications

- Data Visualization - Kaggle
- Computer Vision - Kaggle
- CISCO Data Analytics Essentials
- CISCO Networking Basics
- AI for Everyone - Great Learning
- Prompt Engineering for Everyone - Cognitive Class