DILAN P

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OBJECTIVE

Aspiring AI enthusiast with a strong foundation in Machine Learning, NLP, 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.

EDUCATION

Rajalakshmi Institute of Technology   Chennai, IN
Bachelor of Technology in Artificial Intelligence and Data Science (CGPA: 8.3)   *Nov 2020 – May 2024*

St. Joseph Matriculation Higher Secondary School   Nagercoil, IN
SSLC and HSC   *Jun 2017 – Mar 2020*

EXPERIENCE

Research Assistant   Jun 2022 – Dec 2023
Rajalakshmi Institution   *Chennai, IN*
- Worked on projects that involved data collection, analysis, and interpretation using advanced ML algorithms and statistical models.
- Designed experiments, coded in Python and R, and leveraged tools like TensorFlow, PyTorch, and Scikit-learn for model development and evaluation.
- Visualized complex datasets and results, making insights understandable.
- Developed strong analytical thinking, problem-solving abilities, and a deep understanding of the ethical considerations in AI & DS research.

PROJECTS

Stock Market Information Retrieval, Decision Support System | *Langchain, CrewAi*
- Developed a detailed summarizer for multiple information about company stock.
- Implemented with GeminiPro LLM and Web search data connected with Langchain.
- Utilized CrewAi to implement multiple agents for processing input and output.

Stock Market Prediction and Dashboard Development | *Pandas, Matplotlib*
- Developed a stock price prediction project using LSTM with multiple stock datasets.
- Implemented data preprocessing, LSTM model training, and developed an interactive dashboard.
- 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 model like tensorflow is used with the transformers architecture as Neural Network.
- Matplotlib is used for visualizing the performance and the distribution of emotions.

Personal Portfolio Project | *HTML5, CSS, JS*
- Built and deployed multiple professional portfolio websites to effectively represent work and skills.
- Focused on responsive design for accessibility and usability across devices and screen sizes.
- Enhanced user experience with interactive elements and dynamic content using JavaScript.

HunterBlog - Blog Website | *Astro Project*
- Built and deployed using Astro to generate static pages for fast loading times and improved performance.
- Designed with a minimalist approach for readability and ease of navigation.
- Included a search feature for efficient blog post discovery.

Personal Virtual Private Network | *AWS, OpenVpn, Cloud Platforms*
- Developed a Virtual Private Server with the help of Cloud Platforms.
- Implemented an Virtual machine on the Cloud server, called EC2 Instance in AWS. Through we generate a key pair for SSH access.
- Published a blog article on How to Do on my Blog Website.

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.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, HTML & CSS, R

Frameworks: React, Astro, WordPress, Material-UI, Pytorch, TensorFlow

Developer Tools: AWS, Firebase, Docker, Git, Azure, Kubernetes, Hadoop, Figma, OpenVPN, Netlify

Productivity Tools: Microsoft Excel, PowerPoint, Word, LaTeX

Libraries: Pandas, NumPy, Matplotlib, spaCy, SciPy

Statistical Software: MATLAB, SAS

CERTIFICATIONS

- **Data Analytics essential (Cisco)**

- **Networking Basics (Cisco)**

- **AI for Everyone (Great Learning)**

- **Data Visualization (Kaggle)**

- **Computer Vision (Kaggle)**

- **Prompt Engineering for Everyone (Cognitive Class)**