Pragathi A M

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Summary

A passionate and results-driven Computer Science Engineering student specializing in Artificial Intelligence and Machine Learning, with a strong academic record (CGPA: 8.9). Proficient in critical thinking, problem-solving, pattern recognition, and end-to-end machine learning model development. Eager to apply technical skills and innovative thinking to build impactful solutions addressing real-world societal challenges. Strong foundation in data analysis, algorithm design, and AI/ML frameworks, with a keen interest in continuous learning and interdisciplinary collaboration.

Skills

Programming skills: C, C++, Java, JavaScript, Python, HTML, CSS
Development tools: Jupyter, VS Code, Git
Database: MySQL, MongoDB
Technical skills: MS Word, MS Excel, MS PowerPoint, MS Teams
Data Visualization: Power BI, Python, Tableau
Operating Systems: Linux, Unix(basics), Windows

Education

JSS Academy of Technical Education Bengaluru(CGPA: 8.9) **Nov 2022 - Present**

Analysis and Design of Algorithms, Database Management Systems, Artificial Intelligence, Operating Systems, Python Programming for Data Science, Software Engineering and Project Management, Image and Video Processing, Computer Networks, Machine Learning, Human-Centred AI.

Projects

NLP Driven Database Management for Small Enterprises : **Sept 2024 - Dec 2024**

Executed four-man project to develop a unique webapp. Used Natural Language Processing for speech-to-text input to enable easy user-database interface. Integrated frontend(React, Express) with backend(Node) and database(MySQL) to simplify and smoothen user interaction and database management. Gained deep knowledge about the web development, problem solving.

Edge detection using image processing: **Sept 2024 - Oct 2024**

Developed and deployed an edge detection system using image processing algorithms like Sobel detector, Laplacian edge detection, Canny edge detection, improving recognition accuracy by 98%. Used Python to develop a program that detects edges in images using various algorithms in image processing along with image classification, segmentation and feature extraction. Acquired skills in image processing and Python libraries like seaborn, OpenCV, matplotlib.

EmotionsAI: **Ongoing**

Working on a facial emotion detection system using Computational Neural Network and Residual Neural Network that detects facial emotions using facial key points in an image from a dataset. Using numerous libraries like TensorFlow, keras, seaborn, matplotlib, NumPy, pandas and so on to increase the accuracy to 85%. Aiming to integrate this project with other models to solve real world problems.

Hackathons

Hackmarch:

Participated and secured 4th place in ‘Hackmarch’ conducted by KLE Society Nijalingappa College. We developed an ML model to solve a classification problem. Raw data was given and we were asked to preprocess it before applying the algorithm. We used Hist gradient boosting algorithm as it gave a good accuracy of 76%. Showcased our problem solving and creative thinking skills at this short 8-hour hackathon and attained valuable insights in Machine Learning model development.