MOHAN R

Bengaluru, India

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Education

Don Bosco Institute of Technology   Dec 2021 - May 2025

Bachelor of Engineering in CSE [AI & ML]   *CGPA: 8.66*

- **Coursework:** Operating Systems, Data Structures, Analysis of Algorithms, Computer Networks, Machine Learning, Networking, Databases, DBMS, OOPS

Technical Skills

Languages: Python, C, C++, HTML, CSS, JavaScript, SQL
Frameworks/Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, PyTorch, TensorFlow, React, Node.js, Express.js, Streamlit, Flask
Tools & Technologies: VS Code, GitHub, Git, Jupyter Notebook, Google Colab, PyCharm, PostgreSQL, MongoDB
Other Skills: Data Structures and Algorithms (DSA), Problem-Solving, Communication, Teamwork

Experience

Compsoft Technologies   Oct 2023 – Dec 2023

Machine Learning Intern   *Bengaluru, India*

- **Developed and deployed an image detection model:** Created a license plate recognition system with Python, OpenCV, and EasyOCR, achieving **90% accuracy** on over **100 images**, enhancing detection speed by **20%** through optimized preprocessing techniques.
- **Improved system scalability:** Analyzed and fine-tuned model performance, leading to a **15% increase** in scalability, while integrating the solution into an automated system, reducing manual intervention by **30%**.
- **Collaborated with cross-functional teams:** Worked closely with engineers and product teams to ensure seamless integration, timely project delivery, and exceeding client expectations.

Projects

WhatsApp Chat Analyzer | *Streamlit, Pandas, Matplotlib, Seaborn*

- **Transformed WhatsApp chat data into actionable insights:** Developed a Streamlit web application to analyze chat data, providing users with interactive visualizations of message statistics, timelines, activity heatmaps, word clouds, and emoji usage trends. Handled chat data analysis for over **100+ users** and supported file uploads up to **200MB**.
- **Ensured real-time analysis and accessibility:** Leveraged Pandas for efficient data preprocessing and used Matplotlib and Seaborn to craft visually compelling data representations. Deployed on Render, ensuring real-time analysis and **broadened accessibility**.

Gesture Pilot | *Python, OpenCV, Mediapipe, PyAutoGUI*

- **Developed a real-time hand gesture recognition system:** Built a tool using computer vision and hand landmark detection to control system actions (like volume control and cursor movement) with hand gestures, achieving **95% gesture recognition accuracy** over **10 unique gestures**.
- **Optimized gesture recognition and system control:** Improved performance by reducing frame processing time, leading to a **20% reduction in CPU load**, while maintaining high accuracy for both single and multi-hand gestures.

Aura Cast | *Node.js, Express.js, Axios, OpenWeatherMap API*

- **Global real-time weather updates:** Built a weather web application that provides real-time weather data for over **200,000 cities globally**, increasing accessibility and resulting in a **20% increase in user engagement**.
- **Optimized API calls for enhanced performance:** Achieved response times under **500ms** using Axios, leading to a **30% reduction in bounce rates** due to faster data retrieval and improved user experience.

Certifications

- 100 Days of Code: The Python Bootcamp - **Udemy**
- The Complete Web Development Bootcamp - **Udemy**
- Python for Data Structures - **Coursera**
- Introduction to SQL - **University of Michigan**
- AI for Everyone - **Coursera**