# MOHAN R

Bangalore, India

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## Education

**Don Bosco Institute of Technology** — May 2025
*Bachelor of Engineering in CSE [AI & ML], **CGPA: 8.66*** — *Bangalore, India*

- **Relevant 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** — October 2023 − December 2023
*Machine Learning Intern* — *Bangalore, India*

- **Developed and deployed a Machine Learning model:** Designed and implemented a model for an Automated Parking System, achieving 90% accuracy in detecting license plates from over **100** images. Technologies used: Python, EasyOCR, OpenCV.
- **Authored a comprehensive report:** Analyzed system performance and provided actionable recommendations, leading to a **25%** increase in system scalability and optimization.
- **Contributed to project success:** Collaborated with cross-functional teams and adapted quickly to new tools and technologies, ensuring on-time 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**.

**Multilingual Sentiment Analysis** | *Python, Gradio, Whisper, Hugging Face Transformers*

- **Real-time multilingual sentiment analysis:** Developed a tool that performs real-time multilingual speech recognition, sentiment analysis, and language detection, increasing accuracy to **80%** across **15 languages**.
- **Enhanced user experience:** Incorporated emoji-based emotional feedback to provide a visual representation of sentiments, leading to a **25% increase in user satisfaction** and usability.

**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**
- Python for Data Structures - **Coursera**
- Introduction to SQL - **University of Michigan**
- AI for Everyone - **Coursera**