

MOHAN R

Bengaluru, India

☎ +91 8904090318 ✉ mohanr2883@gmail.com 🌐 [mohanr018](#) 📺 [Mohan18R](#) 📁 [Portfolio](#)

Education

Don Bosco Institute of Technology

Dec 2021 - May 2025

Bachelor of Engineering in CSE [AI & ML]

CGPA: 8.66

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

Virtual Interviewer | *Python, Google Gemini, Streamlit, SpaCy, Hugging Face Transformers* 📄

- **Implemented an ATS compliance scorer:** Built using **SpaCy** for keyword extraction and weighting, enabling candidates to evaluate their resumes with actionable feedback.
- **Generated tailored interview questions and answers:** Leveraged **Google Gemini API** to dynamically create questions based on resume content, providing personalized preparation.
- **Developed a virtual interview practice tool:** Used **SpeechRecognition** for voice input analysis and **Hugging Face Transformers** for sentiment and emotion detection, integrated into an intuitive **Streamlit** interface for real-time feedback.

NewsNow Dashboard | *React, Axios, NewsAPI, OpenWeatherAPI* 📄

- **Developed an interactive news aggregator:** Built a responsive React web application that integrates real-time news and weather updates, enabling users to filter by categories and search articles for a personalized experience.
- **Enhanced usability and performance:** Leveraged **Axios** for API requests to fetch news from **NewsAPI** and weather data from **OpenWeather**, optimizing API calls and delivering fast, seamless user interactions.
- **Interactive and user-friendly interface:** Designed a responsive UI with **Bootstrap**, featuring seamless navigation through multiple articles and top trending news.

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

- **Built a real-time hand gesture control system:** Used **Mediapipe** for hand landmark detection and **OpenCV** for video frame processing to enable intuitive controls like volume adjustment, cursor movement, and media navigation using **10+ custom gestures**.
- **Enhanced performance and responsiveness:** Optimized frame analysis to reduce processing load, ensuring accurate and lag-free gesture recognition for both single and multi-hand inputs.
- **Integrated seamless system interaction:** Leveraged **PyAutoGUI** for real-time system control and **Pycaw** for precise audio volume management, delivering an engaging hands-free 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**