MOHAN R

Bengaluru, India

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Professional Summary

Computer Science student specializing in AI & ML with hands-on experience in software development and problem solving. Skilled in leveraging modern technologies to build user-centric, scalable, and efficient applications.

Education

Don Bosco Institute of Technology   Dec 2021 – May 2025
Bachelor of Engineering in CSE [AI & ML]   *CGPA: 8.77*

Projects

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

- Developed an ATS compliance scorer using SpaCy for keyword extraction and weighted scoring to provide actionable feedback.
- Utilized the Google Gemini API to generate personalized interview Q&A tailored to individual resumes.
- Created a virtual interview practice tool integrating SpeechRecognition for voice analysis and Hugging Face Transformers for sentiment detection.

NewsNow Dashboard | *React, Axios, GNews API, OpenWeatherMap API* ◯

- Developed a dynamic news aggregator using React.js, integrating GNews API for real-time news updates and OpenWeatherMap API for local weather data with geolocation support.
- Implemented category filtering and search functionality for an enhanced user experience.
- Optimized API integration with Axios, ensuring efficient error handling, fallback states, and smooth state management for optimal performance.

Virtual Assistant with Gesture Control | *Python, OpenCV, MediaPipe, SpeechRecognition, PyAutoGUI, pyttsx3* ◯

- Developed a voice-controlled AI assistant integrating SpeechRecognition and pyttsx3 for natural language interactions.
- Implemented gesture-based control using OpenCV and MediaPipe for intuitive system navigation and media management.
- Automated system tasks with PyAutoGUI, enabling hands-free operation through combined voice and gesture commands.

Experience

Unified Mentor Pvt Ltd   Oct 2024 – Feb 2025
Data Science Intern

- Developed a news analysis pipeline to fetch and process real-time news data using Python, NewsAPI, and Pandas.
- Implemented sentiment analysis on news headlines using NLTK's VADER, categorizing articles as positive, negative, or neutral.
- Designed interactive visualizations using Matplotlib and Seaborn to identify trends in news sentiment and frequency across different categories.

Technical Skills

- **Languages:** Python, C, C++, Java, HTML, CSS, JavaScript, SQL
- **Frameworks/Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, React.js, Node.js, Express.js, Streamlit
- **Tools & Technologies:** VS Code, GitHub, Git, Jupyter Notebook, Google Colab, Docker

Certifications

- 100 Days of Code: The Python Bootcamp - **Udemy**
- The Complete Web Development Bootcamp - **Udemy**
- Introduction to SQL - **University of Michigan**