

Mohamed Junaidh Usman M S

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Summary

Self-motivated and detail-oriented Artificial Intelligence and Machine Learning undergraduate with hands-on experience in AI agents, automation workflows, and rapid prototyping using AI tools. I am skilled in Python programming, data preprocessing, and model development. I efficiently leverage AI platforms (e.g., GPT models) to accelerate solution building—focusing on problem-solving and implementation rather than reinventing models from scratch. Passionate about developing intelligent solutions that enhance user experience and business performance.

Projects

Auto Translate: Automated Sign Language Interpreter and Translator — Python, OpenCV, MediaPipe, LSTM, Google Speech API

- Developed a real-time ASL interpreter for gesture-to-text and speech conversion using **OpenCV, MediaPipe, and LSTM**.
- Integrated **Google Translate and Speech APIs** for multilingual voice output.
- Enhanced accessibility for hearing-impaired individuals through real-time gesture recognition.

Personalized Recommendation System — Python, TensorFlow, Scikit-learn, Pandas

- Built a content-based recommendation engine that delivers personalized suggestions based on user preferences.
- Used **feature extraction and cosine similarity** techniques to generate relevant content.
- Demonstrated understanding of **data preprocessing, feature engineering, and model evaluation**.

AI-Based Voice Assistant — Python, NLP, SpeechRecognition, pyttsx3, OpenAI API, n8n, Zapier

- Developed a voice assistant with **speech-to-text, NLP, and automation capabilities**.
- Integrated **n8n and Zapier** for automating systems and web-based tasks.
- Enhanced conversational ability using **prompt engineering and contextual response generation**.

Technical Skills

Programming Languages

- Python, SQL, Java (Basic)

Libraries & Frameworks

- NumPy, Pandas, Scikit-learn, TensorFlow (Basic), OpenCV, MediaPipe

AI / Automation Tools

- n8n, Zapier, ElevenLabs, OpenAI API

Development Tools

- VS Code, Jupyter Notebook, Git, Google Colab, Tableau

Certifications

Game Development – Forage

Data Visualisation: Empowering Business with Effective Insights – Forage

Python for Data Science and AI – Strydo Technologies

Python Programming – Strydo Technologies

Additional Information

Languages: English, Tamil, Hindi

Soft Skills: Problem Solving, Communication, Team Collaboration, Time Management

Areas of Interest: Artificial Intelligence, Machine Learning, Generative AI, AI Automation

Education

Rajalakshmi Engineering College

Bachelor of Technology in Artificial Intelligence and Machine Learning

Chennai, India

2021 – 2025