

Ajay M S

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SUMMARY

Computer Science undergraduate specializing in AI, Machine Learning, LLMs, and RAG techniques, with expertise in Python, Java, React, Node.js, and MongoDB for developing intelligent, scalable full-stack systems.

SKILLS

Programming Languages: Python, C, C++, JAVA, SQL, JavaScript

Web Development: HTML, CSS, JavaScript, React.js, Node.js, Express.js, Flask, Streamlit

Databases: MongoDB, MySQL, Oracle, PostgreSQL

AI/ML Frameworks & Libraries: TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn, Matplotlib

Tools: AWS, Docker, SUMO, Git, Gazebo, ROS, MATLAB, Postman, Arduino IDE, Blynk IOT Platform, PyBullet

PROJECTS

AI-Powered Voice Shell

Jul 2025 – Aug 2025

Generative AI Systems Project

Python, Sarvam AI, Google Gemini, WSL, pyttsx3

- Built a multilingual voice-driven assistant that converts Tamil/English speech into validated Linux commands and executes them securely inside WSL using Sarvam AI for STT, Gemini for command generation, and pyttsx3 for spoken feedback.

Certification Authentication App

Aug 2025 – Sep 2025

Blockchain-Based Credential System

React, Vite, FastAPI, Solidity, Polygon Amoy, IPFS, Firebase

- Built a full-stack Web3 certification platform enabling organizers to mint skill credentials as ERC-721 NFTs on Polygon Amoy with IPFS metadata storage, role-based access via Firebase authentication, and public certificate verification using token IDs.

EXPERIENCE

Research Intern

May 2025 – July 2025

NGNLab

UAV, Gazebo, ROS, MATLAB, Python

- Conducted research on UAV swarm coordination, autonomous navigation, and robust path planning using ROS, Gazebo, and MATLAB, and developed a YOLO-based tomato plant disease detection system for real-time image classification.

AI Engineering Intern (Team Lead)

Aug 2025 – Jan 2026

InTalks AI

FastAPI, AWS, Sarvam AI, XGBoost

- Led the development and deployment of an AI-driven multilingual outbound collections voicebot, enabling automated high-volume customer engagement, risk-based call prioritization using an XGBoost delinquency model, and real-time operational visibility through an integrated dashboard, improving collection efficiency and scalability.

AI Intern

Jan 2026 – Feb 2026

E16 AI XR Technology Pvt Ltd

Python, Librosa, Streamlit, Signal Processing

- Developed an end-to-end audio frequency comparison and voice similarity evaluation system using STFT and MFCC-based feature extraction, delivering a Streamlit web application that computes cosine similarity scores, visualizes frequency-domain spectra, and enables interactive multi-format audio analysis.

EDUCATION

Anna University, MIT Campus

Chennai

B.E Computer Science and Engineering **CGPA: 8.87/10**

Aug 2023 – Present

AGM Higher Secondary School

Chennai

Higher Secondary – Class XII **Result: 95.33%**

Jun 2021 – Apr 2023

CERTIFICATIONS

Predictive Modeling – DevTown

Jul 2025

Machine Learning in Action – Google Developer Groups

Mar 2025

Artificial Intelligence Fundamentals – IBM SkillsBuild

Mar 2025

Mastering DSA Patterns – Google Developer Groups

Mar 2025

Programming, Data Structures and Algorithms using Python – NPTEL

Sep 2024

Advanced Diploma in Computer Application – Neon Computer Education

Oct 2023