

AJITH G

AI & Machine Learning Engineer | Data Science Enthusiast | Full-Stack Developer

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PROFESSIONAL SUMMARY

Pursuing AI & Data Science at Velammal Engineering College with proven hands-on experience building real-world AI systems, ML pipelines, and full-stack applications. Specialized in computer vision, predictive modelling, and NLP-driven applications. Passionate about applying machine learning and data-driven techniques to solve complex problems at scale. Actively seeking roles in AI/ML Engineering or Data Science.

EDUCATION

B.Tech. in Artificial Intelligence & Data Science (Pursuing)

Velammal Engineering College, Chennai

Sep 2023 – Present

CGPA: 8.6 (Up to 5th Semester)

HSC (Class XII)

Bell Matriculation Higher Secondary School, Tuticorin

Jun 2022 – Apr 2023

84%

SSLC (Class X)

Bell Matriculation Higher Secondary School, Tuticorin

Jun 2020 – Apr 2021

100%

AREAS OF INTEREST & LEARNING

Machine Learning & Predictive Modelling • Computer Vision & Image Processing • Natural Language Processing • Generative AI & LLMs • Data Analytics & Visualization • MLOps & Model Deployment

TECHNICAL SKILLS

AI / ML	Scikit-learn, TensorFlow, PyTorch, OpenCV, MediaPipe, Pandas, NumPy, Matplotlib, Seaborn
Backend / APIs	FastAPI, Node.js, Express.js, REST APIs, PostgreSQL, MySQL, MongoDB
Frontend	React.js, Next.js, Nest.js, Tailwind CSS
DevOps / Tools	Docker, Git, GitHub, Electron, Linux
Languages	Python, TypeScript, JavaScript, Dart, Java

PROJECTS

AI-Based Real-Time Teaching Monitoring System *OpenCV · MediaPipe · FastAPI · Next.js · PostgreSQL*

Gold Rate Predictor *Python · Scikit-learn · Pandas · yfinance · Matplotlib*

Gemini Discord FAQ Bot (Generative AI / NLP) *TypeScript · Google Gemini API · Discord API · Docker*

Velammal Engineering College - Official College Website *React.js · Node.js · MongoDB*

Electron-Based Secure Online Exam Portal *React.js · Node.js · MongoDB · Electron*

Securoo - Password Manager (Mobile App) *Flutter · Hive · Biometric Authentication*

WORK EXPERIENCE

Frontend Developer (Intern) | *Velammal Engineering College*

Jan 2023 – Present • Chennai

Production Web Application

- ▶ Developed and maintained production-grade college web applications using the MERN stack (MongoDB, Express, React, Node.js)
- ▶ Integrated REST APIs, authentication flows, and real-time state management for live institutional deployments
- ▶ Collaborated with backend teams on bug fixing, feature enhancements, and performance optimizations

QA Exam System

- ▶ Owned 100% of frontend integration for a secure AI-powered online exam platform used in live academic assessments
- ▶ Implemented client-side violation detection (Fullscreen exit, tab switch, focus loss) with persistent violation counters
- ▶ Optimized exam UI for low latency and accuracy; converted MERN web app to desktop using Electron