Jagavantha PA — Portfolio

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Executive Summary

Final-year AI & Data Science student skilled in building AI-powered systems, Flutter apps, and scalable backend solutions using FastAPI and LLMs. Proven ability to deliver impactful, production-ready projects in predictive analytics, automation, and AR-based learning through internships and hackathons

Education

Meenakshi Sundararajan Engineering College **Nov 2022 - Sep 2026**
Bachelor of Technology - Artificial Intelligence and Data Science Chennai, Tamilnadu

Relevant Coursework

- Data Structures
- Machine Learning
- SQL
- System Design
- Artificial Intelligence
- Agentic AI
- App Development
- Generative AI
- Statistics
- Automation

Experience

EnnVee Solutions **Jan 2026 - Mar 2026**
Software Engineer Intern Chennai, Tamilnadu

- Acquired foundational knowledge in Artificial Intelligence and Machine Learning, including model development and data preprocessing techniques
- Developed a demand forecasting system to predict trends and support data-driven decision-making
- Designed and implemented a smart project allocation system to optimize resource utilization and improve team efficiency

NLTVC - VHGlobal **Mar 2025 - May 2025**
Software Engineering Trainee Chennai, Tamilnadu

- Resolved critical code issues and migrated the project to the latest Flutter version, ensuring optimal compatibility, stability, and performance.
- Utilized Flutter SDK, Dart, and Android Studio for efficient debugging, testing, and overall app development.
- Successfully built, tested, and published the APK on the Google Play Store, enhancing user accessibility and delivering a seamless app experience.
- Strengthened expertise in app deployment, version management, and end-to-end Flutter project lifecycle handling.

Projects

Repo-Pilot – Autonomous Self-Healing CI/CD Pipeline | FastAPI, Python, LLMs, RAG, Vector DB **March 2026**

- Architected a self-healing CI/CD pipeline capable of automatically detecting, analyzing, and resolving build and deployment failures in real-time
- Implemented automated monitoring and retry mechanisms using Elasticsearch for log indexing and fast error retrieval. Improved developer productivity by enabling faster failure recovery, intelligent debugging, and resilient deployment workflows

ATOM – AI Powered Pre-Incident Forecasting for Reliable Systems | FastAPI, Python, Agents, Time-Series **January 2026**

- Architected an end-to-end predictive reliability platform to forecast system incidents before occurrence using time-series modeling and anomaly detection
- Reduced potential downtime through proactive alerts, automated risk scoring, and visual dashboards for system health monitoring

Smart AR Tutor | Python, Firebase, Flutter, 3D Models, Render **February 2025**

- Designed an AI-driven tutoring system incorporating Augmented Reality for immersive 3D content visualization. Enabling users to learn effectively
- Delivered personalized learning experiences by adapting to user interactions and performance data. Makes them to track their progress and improve their learning

Technical Skills

Languages - Dart, Python, Flutter, Docker, C, SQL,
Developer Tools - VS Code, Google Cloud Platform, Render, Pinecone, Supabase, Android Studio
Technologies/Frameworks - Flutter, GitHub, Fast API

Languages

English - Fluent and Professional
Tamil - Fluent and Professional

Coursework / Certifications

Google AI Professional Certificate
Coursera

- Completed comprehensive training in AI fundamentals, machine learning concepts, and real-world applications
- Gained hands-on experience with data analysis, model building, and AI-driven problem solving
- Explored industry-relevant tools and workflows used in modern AI systems

Python and AI Fundamentals
GUVI

- Learned core concepts of Python programming including data structures and scripting
- Applied Python to AI and machine learning basics, including simple model implementations
- Built foundational understanding of problem-solving using Python in AI contexts

Introduction to C Programming
NPTEL

- Developed strong fundamentals in C programming, including memory management and pointers
- Practiced algorithmic problem-solving and structured programming techniques
- Gained understanding of low-level programming concepts and computational logic

Leadership / Extracurricular Activities

AI Epoch Club
Vice President

- Organized and led AI-focused seminars, workshops, and hackathons, engaging 100+ participants in hands-on learning with topics like machine learning and deep learning.
- Managed event logistics, coordinated with speakers, and collaborated with team members to boost club participation by 30% and deliver impactful technical experiences.

Promptomania
Coordinator

- Volunteered in organizing Prompt-O-Mania, a competitive event where participants built innovative applications using the Gemini API key for generative AI solutions.
- Participants more than 200+ students attended the event and gained knowledge on AI and How to use API keys properly with proper mentorship

Awards / Achievements

3rd Prize – AI Innovate Hackathon
Sri Eshwar Engineering College

- Secured 3rd place and won a cash prize of ₹10,000
- Developed an Accident Hotspot Prediction System using data-driven techniques to identify high-risk areas
- Implemented data preprocessing, feature engineering, and predictive modeling to identify high-risk zones
- Delivered insights to support proactive safety measures and urban planning decisions

Top 12 Finalist – Beach Hacks Season 07
Christ Engineering College, Kerala

- Selected among the Top 12 teams out of 750+ registrations, demonstrating strong problem-solving and innovation skills
- Built ATOM – AI-Powered Pre-Incident Forecasting System for Reliable Systems
- Leveraged AI/ML models to predict potential system failures before occurrence, improving reliability and uptime
- Focused on real-time data processing and predictive analytics for early risk detection

Top 8 Finalist – HackRx 6.0
R.V. Engineering College, Bengaluru

- Achieved Top 8 position among 620+ participants in a highly competitive hackathon
- Developed a Retrieval-Augmented Generation (RAG) based Query System for intelligent information retrieval
- Integrated LLMs with vector search to deliver accurate, context-aware responses
- Optimized system performance for fast query response and scalable architecture