

Tanish Jagtap

[Email](#) | [Website](#) | [LinkedIn](#) | [GitHub](#)

EDUCATION

AISSMS Institute of Information Technology

CGPA 7.05

Pune, IN

2023 – 2027

Relevant Coursework: Object Oriented Programming, Databases, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Theory of Computation.

PROJECTS

Datagen – Synthetic Dataset Generator — [Link](#)

Dec 2024 – Jan 2025

Tech: FastAPI, Next.js, TypeScript, Gemini, OpenAI, Pinecone

- Built a full-stack synthetic data platform with a **FastAPI** backend and **Next.js** frontend to generate large CSV/JSON datasets from uploads or natural-language schema prompts, supporting streaming downloads up to 100k rows.
- Implemented a hybrid generation pipeline using Faker for structured fields and Gemini/OpenAI LLMs for complex columns, with validation, PII anonymization, and rate-limiting for privacy-aware and reliable datasets.
- Integrated **Pinecone vector search and embeddings** to index dataset schemas, retrieve similar contexts, and enhance schema understanding and generation accuracy across diverse domains.

Nova – Automated AI Desktop Assistant (Under Development) — [Link](#)

Tech: Electron, Docker, Kubernetes, Firebase, FastAPI, Vercel

- Developed a cross-platform **Electron** desktop application (React + TypeScript) using electron-builder, enabling automated workflow assistance on Windows, macOS, and Linux.
- Built the automation backend with **FastAPI**, containerized it using **Docker**, and architected a **Kubernetes**-ready system for scalable task orchestration, RAG workflows, and real-time event processing.
- Integrated **Firebase Authentication** and **Firestore** for secure user state management and coordinated automation, with deployment targeting **Vercel** for the web UI and a Docker/Kubernetes stack for backend APIs and autonomous agent services.

EXPERIENCE

CyberShield

Sep. 2024 – Present

Chief Legal & Documentation Officer

Pune, IN

- Part of a student club, where we encouraged members to get into the field of cybersecurity.
- Played a key role in managing and conducting week-long workshops and monthly awareness sessions, while also handling all legal documentation, records, and compliance-related materials for the club.

AWARDS

TechXcelerate Hackathon – BITS Hyderabad

March 2025

8th Rank

Hyderabad, IN

- Developed an AI-based supply chain forecasting system using machine learning and a serverless NoSQL database to enable fast, scalable, and real-time demand prediction.

Object-Oriented Programming Champion — AISSMS IOIT

October 2024

1st Rank

PUNE, IN

- Won the Object-Oriented Programming Champion competition organized by the AI & DS Department for B.Tech students, presenting a menstrual cycle tracker built using classical machine learning techniques to accurately predict cycle patterns.

SKILLS & Technologies

Languages: C/C++, Python, TypeScript, SQL.

Technologies & Tools: AWS (EC2, Lambda), Docker, Kubernetes, FastAPI, PyTorch, TensorFlow, YOLO, LangChain, Firebase, MongoDB.