

# SHETTY GAURAV JAGADEESHA

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## Objective

Final-year Artificial Intelligence and Machine Learning student with industry experience. Passionate about solving real-world problems using Machine Learning, Generative AI, and Deep Learning techniques. Skilled in building intelligent applications integrating ML models into production backends.

## Education

**Alvas Institute of Engineering and Technology**

**Nov 2022 – May 2026**

*B.E. in Artificial Intelligence and Machine Learning*

*CGPA: 7.85/10*

**Viveka PU College, Kota**

**Jun 2020 – May 2022**

*PCMB (Physics, Chemistry, Mathematics, Biology)*

*Percentage: 85.3/100*

## Experience

**Software Development**

**May 2025 – Present**

*Accenture, Software Development Intern*

*Bengaluru, India*

- Collaborated with backend engineering and AI teams to enhance the accuracy and contextual relevance of LLM-generated outputs through prompt engineering, retrieval augmentation, and feedback-driven refinement.
- Worked on data preprocessing pipelines for transforming semi-structured inputs into clean, queryable formats simulating real-world technical documentation workflows.
- Contributed to backend API development, ensuring smooth interaction between ML models and client-facing services.

## Projects

Generative AI Assistant for Technical Documentation — LangChain, OpenAI API, Pinecone, Flask, React

- Developed a GenAI-powered chatbot capable of answering queries from technical manuals using Retrieval-Augmented Generation (RAG).
- Ingested sample AMM data into a vector database (Pinecone) after chunking and embedding with Sentence Transformers.
- Implemented agentic behavior using LangChain agents to route queries, validate responses against source data, and cite references improving trust and accuracy.

Automated Fault-Procedure Mapping — Python, Scikit-learn, Rule Engines

- Built a secure and scalable Node.js backend using Express 5 and modern libraries like helmet, bcrypt, and jsonwebtoken.
- Integrated PostgreSQL and Redis for efficient data storage and caching, with real-time communication via socket.io.
- Implemented file uploads and detailed logging using multer, express-rate-limit, and Pino.

Scalable Backend for Technical Data Services — Nodejs, Python, Machine Learning(Linear Regression)

- Built a secure, scalable backend to serve technical data APIs with authentication (JWT), rate limiting, and logging (Pino).
- Integrated PostgreSQL for structured data and Redis for caching frequent queries, improving response time by 40 percent.

## Skills

**Programming Languages:** Nodejs, Postgres, React, MongoDB.

**ML/DL/NLP:** Regression, Classification, CNN, LSTM, LangChain, Embeddings, Prompt Engineering, Model Deployment, scikit-learn, PyTorch, Vector database(PineCone).

**Cloud/DevOps:** AWS, EC2.

**Soft Skills:** Leadership, Teamwork, Communication, Versatile, Enthusiastic, Problem Solver, Analytical, Pragmatic.

## Achievements and Research

Speaker - Workshop on BlockChain: Delivered Basics of BlockChain to College Students.

Finalist - TCS TechBytes: Selected among top 3 from 800 students in the college.

Solved 150+ problems on Leetcode.

## Certifications

- \* Joy of Computing Using Python
- \* Cloud Computing – NPTEL
- \* Google Cloud Foudation Course - NPTEL
- \* BlockChain Technology -NPTEL