

PHANEENDRA GAVARA

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SUMMARY

M.S. Data Science graduate from ASU (GPA 3.90/4.0) with experience building production LLM pipelines, RAG systems, autonomous AI agents, and end-to-end ML applications. Proficient in Python, PyTorch, OpenAI API, and LangChain. Seeking AI/LLM Engineering, ML Engineering, and Data Science roles. U.S. authorized through June 2029 (OPT).

EDUCATION

Arizona State University

Tempe, AZ

M.S. Data Science, Analytics & Engineering **GPA: 3.90 / 4.0**

Aug 2024 – May 2026

- Concentration: Computing and Decision Analytics
- Coursework: Statistical Machine Learning, Data Mining, Knowledge Representation, Data Processing at Scale, Computing & Data-Driven Optimization, Data Visualization & Reporting, Capstone
- Teaching Assistant — CSE 540 (Blockchain Applications), CSE 230 (Assembly Language & Computer Organization), CSE 180 (Computer Literacy), ASU 101

IIIT Bhubaneswar

Bhubaneswar, India

B.Tech in Computer Science Engineering

Aug 2020 – May 2024

- Core CS: Algorithms & Data Structures, DBMS, Operating Systems, Computer Networks; Programming in C, C++, Python, Java

TECHNICAL SKILLS

AI / LLM / GenAI: OpenAI API (GPT-4o), LangChain, RAG Pipelines, Prompt Engineering, Autonomous Agents, Pinecone, Vector Search

ML & Deep Learning: PyTorch, Scikit-learn, HuggingFace Transformers, CNNs, NLP, Audio ML, DistilBERT, SARIMAX, ARIMA

Languages & Stack: Python, TypeScript, JavaScript, SQL, Next.js, React, REST APIs

Data & Cloud: Pandas, NumPy, PostgreSQL, MySQL, AWS S3, AWS EC2, ETL Pipelines, Git, GitHub, JIRA, Vercel

PROJECTS

AI-Powered Portfolio + Sparky | *Next.js 14, GPT-4o, Pinecone, TypeScript, Vercel* | [Live](#)

May 2026

- Built a production RAG pipeline (GPT-4o + Pinecone) powering Sparky, an AI assistant that answers natural language questions about projects and background via streaming SSE responses
- Shipped 9 fully distinct live-switching UI themes; open-source with a privacy-safe content system — demonstrates full AI product ownership from design to deployment

Industrial AI Copilot for Equipment Monitoring | *Next.js, TypeScript, SWR, Web Audio API, Resend*

Apr 2026

- Production real-time anomaly detection system for industrial equipment with sub-second alerting across 4 sensor streams (temperature, pressure, vibration, flow rate)
- Designed full incident lifecycle: audio alert → automated work order → technician email via Resend; built anomaly injection simulator for edge-case validation before deployment

TravelIQ | *Python, SARIMAX, DistilBERT, OR-Tools, Pandas, Open-Meteo API*

May 2026

- Multi-model pipeline combining SARIMAX crowd forecasting, DistilBERT sentiment analysis on live reviews, and weather suitability scoring; applied OR-Tools VRP solver for constraint-based itinerary generation

AI Voice Turing Test | *Python, Librosa, HuggingFace Transformers, NLP* | **3rd Place — ASU Hackathon**

Oct 2024

- Audio feature pipeline (MFCCs, pitch, spectral entropy) combined with NLP sentiment analysis to classify human vs. robotic calls; conducted demographic bias audit across population groups

Anomaly Detection in Crowds | *Python, PyTorch, CNNs, OpenCV*

May 2024

- Trained CNN-based pipeline to detect abnormal crowd behavior from historical video; real-time scoring with configurable thresholds and frame-level anomaly heatmap visualization

EXPERIENCE

Teaching Assistant & Grader

Jan 2024 – Present

Arizona State University — Fulton Schools of Engineering

Tempe, AZ

- Supported instruction across 4 courses: CSE 540 (Blockchain), CSE 230 (Assembly Language & Computer Organization), CSE 180 (Computer Literacy), ASU 101; graded assignments and mentored students on CS fundamentals

Auditor & General Manager

Aug 2021 – May 2024

IIIT Bhubaneswar

Bhubaneswar, India

- Managed financial auditing, structured expense tracking, and cross-functional team coordination for campus events

ACHIEVEMENTS

3rd Place — ASU Social Bias Hackathon (Oct 2024) · Built a real-time AI voice classifier with demographic fairness evaluation, recognized by Ethical Spectacle Research & ASU

Executive Member — Help N Hope Charitable Society (Mar 2024) · Founding member of NGO dedicated to accessible education for underprivileged children