Ayushi

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AI and Data Science undergraduate with hands-on experience in Python, machine learning, and data analysis.
Familiar with deep learning and Generative AI concepts including LLMs and RAG.

TECHNICAL SKILLS

AI / ML: Regression, Classification, Feature Engineering, Model Evaluation; ANN, CNN, RNN, Machine Learning
Frameworks: TensorFlow, Keras, Scikit-learn, spaCy, NLTK, TextBlob, FastAPI
Generative AI: LLMs, Retrieval-Augmented Generation (RAG), Prompt Engineering, OCI Generative AI
Data & Analytics: NumPy, Pandas, Matplotlib, Seaborn, Power BI, Microsoft Excel
Programming: Python, C++, SQL, JavaScript, HTML, CSS, Data Structures and Algorithms, Object-Oriented Programming
Deployment: Docker
Tools & Version Control: MySQL, Git, GitHub

EXPERIENCE

Zynthora.AI
Software Engineering Intern
Aug 2025 – Present
Bengaluru, Karnataka

Worked on the **IISc Vaani multilingual speech project**, preparing and optimizing large-scale speech datasets; collected, cleaned, and formatted **50–60 hours of multilingual audio** across domains such as defence and telecom for model training.

Preprocessed and structured datasets for speech models including **Whisper (ASR), XTTS (TTS), and Chatterbox**, and built **data processing pipelines using Python, NumPy, and Pandas** for dataset transformation and training readiness.

Conducted research on **speech and NLP pipelines (STT, AST, MT, TTS)**, evaluating model architectures with focus on **latency, efficiency, and real-time deployment considerations**.

Trained and experimented with XTTS-based Text-to-Speech models, including dataset preparation, configuration, and training workflows.

Developed **machine learning models for healthcare datasets using Python, Pandas, and Scikit-learn**, while also contributing to **UI prototyping in Figma (video meeting platform)** and preparing technical documentation for research and development workflows.

CodingJR
AI Research Intern
Jan 2025 – Apr 2025
Remote

Implemented supervised learning models using Python and Scikit-learn.

Gained practical exposure to real-world AI workflows and problem-solving.

EDUCATION

B.Tech in Computer Science Engineering (AI/ML Specialization)
Jai Parkash Mukand Lal Innovative Engineering & Technology Institute
2022 – 2026

PROJECTS

Pneumonia Detection (CNN) – CNN-based medical image classifier built using TensorFlow and Keras with image preprocessing and performance evaluation.

MENTOR.AI-Built a multi-agent AI system using LangChain and Groq LLaMA to deliver structured academic mentoring, career guidance, and resume ATS evaluation via a Streamlit interface..

Diabetes Prediction – Supervised ML classification model on healthcare data using Python and Scikit-learn.

Stock Allocator AI – AI system for stock analysis and allocation using real-time data via yfinance.

Portfolio Website – Responsive personal website built using HTML, CSS, and JavaScript.

CERTIFICATIONS

- Generative AI Certified Professional – Oracle
- AI & ML Training Certification
- Python Programming Course – Udemy
- Drone Technology Bootcamp – NIT Kurukshetra