SUMUKH ACHARYA

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EDUCATION

B.Tech in Computer Science and Engineering, PES University Expected Graduation: **May 2026**

PROJECTS

Senior Vision AI | Python, Flask, JavaScript, Gemini API [(Live Demo)](#) [(GitHub Link)](#)

- Architected a **full-stack AI solution** to assist the elderly and visually impaired by scanning product labels, generating simplified summaries, and vocalizing the results.
- Integrated text-to-speech API providing **real-time vocalization** of AI-generated insights, delivering a fully accessible experience on a resilient stack **deployed to Render and Vercel**.

Distributed File Orchestration and Synchronization | Python, Sockets, Threading [(GitHub Link)](#)

- Engineered a secure, **multi-client file server** with user authentication, enabling upload, download, preview, deletion, and listing of user-specific files.
- Implemented **concurrent handling** for multiple client requests and ensured graceful shutdown support.

Dynamic Fare Engine | Python [(GitHub Link)](#)

- Developed a dynamic pricing strategy by building an **ensemble model (SARIMAX, XGBoost, VAR)** to forecast fares for a multi-vehicle ride-sharing service.
- Achieved a **SMAPE score of 3.27** using three years of historical time-series data.

EXPERIENCE

AI Intern September 2025 - Present
Tvam Technologies Pvt. Ltd.

- Mastering the company's Python development standards and applied AI methodologies for a full-stack AI project.
- Actively contributing to the design and scalability planning for a full-stack AI project while mastering the company's core technology stack.

Teaching Assistant (Python & Databases) August 2025 - Present
PES University

- Mentoring 150+ undergraduate students in Python and Database fundamentals.
- Assisting faculty in grading assignments, preparing course materials, and conducting lab sessions.

Data Science Intern June 2024 - August 2024
CODMAV (Centre of Data Modelling, Analytics and Visualization) [(GitHub Link)](#)

- Led the development of a **lung cancer risk prediction system** using advanced feature selection (PCA, BSO, RFE, SelectKBest) and machine learning models (XGBoost, CatBoost, SVM, KNN), achieving **98.75% accuracy** and **96.25% recall**; co-authored on a research paper **accepted for publication on IEEE Xplore**.

SKILLS

Languages:	Python, C, Java
Data Science:	PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy
Frameworks and Tools:	MySQL, Kafka, Spark, Git, Docker, Kubernetes, FastAPI

ACHIEVEMENTS

- IBM Data Science Professional Course by Coursera [(Certificate Link)](#)
- Secured 7th place out of 364 teams in Kaggle Data Analytics Hackathon-1 [(Competition Link)](#)