SUMUKH ACHARYA

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EDUCATION

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

EXPERIENCE

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

- Engaged in a structured training program focused on the company's Python development standards and applied AI methodologies.
- Preparing to contribute to a full-stack AI project, focusing on design and scalability.

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

- Mentoring undergraduate students in Python Programming and Database Management Systems 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.

PROJECTS

Senior Vision AI | Python, Flask, JavaScript, Gemini API (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.
- Deployed a resilient backend API on Render and a responsive frontend on Vercel, featuring a modern and user-friendly UI.

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.

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)