

SUMUKH ACHARYA

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EDUCATION

B.Tech in Computer Science and Engineering, PES University

Expected Graduation: **May 2026**

Specialization: MIDS (Machine Intelligence and Data Science)

EXPERIENCE

AI Intern

Tvam Technologies Pvt. Ltd.

September 2025 - Present

- Implemented and gained hands-on experience in **fine-tuning large language models** using **knowledge distillation** techniques.
- 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)

PES University

August 2025 - Present

- Mentored 150+ undergraduate students in Python and Databases, while also assisting faculty with grading, course material preparation, and lab sessions.

Data Science Intern

CODMAV (Centre of Data Modelling, Analytics and Visualization)

June 2024 - August 2024

([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

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; with **concurrent handling** for multiple client requests.

Grid Pulse | Python, Apache Kafka, Streamlit

([GitHub Link](#))

- Engineered a **real-time**, event-driven data pipeline using Apache Kafka within a decoupled microservice architecture to process both historical batch data and live event streams.
- Developed a **full-stack simulation** with a live, interactive Streamlit dashboard that consumes from a Kafka topic to visualize **real-time driver stock fluctuations**.

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**.

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](#))