

# SUMUKH ACHARYA

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## EDUCATION

**B.Tech in Computer Science and Engineering**, PES University

Expected Graduation: **May 2026**

## PROJECTS

**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**.

**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.

## 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 [\(Competition Link\)](#)