Sumukh Acharya

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Skills

- **Languages:** Python, C, Java
- **Machine Learning and Deep Learning:** pandas, numpy, tensorflow, scikit-learn, Matplotlib, Seaborn, Pytorch, keras, Librosa, Statsmodels, Joblib, ML Models(XGBoost, SVM, CatBoost, KNN), Nueral Networks(DNN, LSTM, Siamese Networks, Autoencoders)
- **Databases and Big Data:** MySQL, Hadoop, Kafka, Spark
- **OS:** Windows, Linux
- **Web Dev:** HTML, CSS, JavaScript, Node JS, React, TypeScript
- **Version Control:** Git, Github
- **Others:** Blender, MSOffice, VSCode, Docker, Kubernetes, Vercel

Experience

Intern, CODMAV – Bengaluru, Karnataka   June 2024 – August 2024

- **Tools Used:** Machine Learning, Data Analysis, Data Visualization
- Preprocessed datasets and applied Feature Selection techniques(**PCA, BSO, RFE, SelectKBest**); trained **XGBoost, SVM, CatBoost, and KNN** models using **5-fold cross-validation**.
- Designed an **Ensemble Model** for early lung cancer detection achieving **98.746%** Accuracy and **96.245%** Recall; published research paper at **2025 IEEE InC4 Conference**.

Projects

DOFS – Distributed File Orchestration and Synchronization

- Designed and implemented a **multi-client distributed file system** in **Python** enabling secure file operations with concurrent client management, robust authentication, and data integrity preservation across networked environments.

Skipify – Deep Learning based Music Recommendation System

- Created a **Deep Learning Model** that predicts **user song skips** by analyzing audio features from **1000+** music files, implementing data pipelines for preprocessing, training, and evaluation for improved music recommendation systems; used **Nueral Networks like Feed Forward Nueral Network**.

Resume Scanner – ATS based Resume Scanner

- Developed a **Java** application with **Swing GUI** that parses resume PDFs, evaluates them against job descriptions, and generates **detailed match reports** with personalized recommendations using weighted scoring algorithms.

Achievements

- Placed Top-10 in Kaggle Data Analytics Hackathon
- Placed Top-10 in Kaggle Machine Learning Hackathon

Education

PES University   2022-2026

- B-Tech in Computer Science and Engineering

BASE PU College   2020-2022

- Class 11-12 (Class XII - 95%)

Sri Kumaran Children's Home   2009-2020

- Class 1-10 (Class X - 90%)