Sumukh Acharya

Bengaluru, KA | sumukh.acharya@gmail.com | +91 9972454072 | https://sumukh-acharya.vercel.app/
linkedin.com/in/sumukh-acharya-6859ab312 | github.com/sumukhacharya03

Skills

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

Experience

Intern, CODMAV – Bengaluru, KA 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

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.

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**.

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.

URL Shortener – Load-Balanced URL Shortener using Docker and Kubernetes

- Designed and implemented a **horizontally scalable** URL shortening service using **Flask, Redis and Kubernetes** with load balancing, health monitoring, stress testing capabilities, and **RESTful API** endpoints for **URL creation and redirection**.

Education

PES University 2022-2026

- B-Tech in Computer Science and Engineering

  Courses Taken: Machine Learning, Deep Learning, Data Analytics, Database Management, Big Data etc.