Souvik Makur

Kolkata, West Bengal, India   souvikmakur2003@gmail.com   +917001911483   in souvikmakurju

Education

Jadavpur University   *2022 – 2026*
B.E. in Information Technology

- CGPA: 8.01
- **Coursework:** Computer Organisation and Architecture, Data Structure and Algorithms, Object Oriented Programming, Computer Networks, Database Management System

Experience

Research and Development   *INTERN*
ITC LTD   **Dec 2024 – Feb 2025**

- Designed and implemented a web scraping pipeline using **Python**, **Selenium**, and **BeautifulSoup** to extract hotel reviews from multiple review sites. Successfully handled dynamic content, CAPTCHA bypass, and pagination to ensure robust data extraction.
- Developed a **computer vision system** using **OpenCV**, **dlib**, and **FaceNet** for real-time unique face detection and identification. Assigned consistent IDs to recurring individuals and maintained a detailed log file in **Excel**.
- Built an **object detection model** using **YOLOv8** and **OpenCV** to analyze real-time drone footage and detect objects of interest. Fine-tuned the model with custom datasets to improve detection accuracy for specific use cases.
- Designed a **Portfolio Optimisation Model** for mutual fund performance using **scikit-learn** and **Tensor-Flow**. Leveraged historical data, statistical analysis, and machine learning techniques to optimize portfolios and predict returns. Presented insights using **Matplotlib** and **Seaborn**.

Project

Portfolio Optimization   *Risk Management Tool*

- Developed a tool to optimize financial portfolios using techniques such as mean variance optimization and the Sharpe ratio.
- Implemented mathematical modelling,used computationally intensive calculations to enhance performance.
- Tools Used: Python, scikit-learn, TensorFlow, NumPy, Pandas, Matplotlib, Predictive Modeling, Statistical Analysis, Data Visualization, Data Cleaning, and Preprocessing.
- Delivered a platform that enables users to manage and visualize portfolios, offering actionable insights into expected returns and risks.

Skills

- **Language Skills:** Python, C++, Sql, Java
- **Quantitative Skills:** Probability Theory, Statistics, Financial Mathematics,Octoparse , and Data Analysis (Pandas, NumPy and other Libraries).
- **Technical Expertise:** AI/ML (Machine Learning Algorithms, TensorFlow, Scikit-learn), Linux, MySQL, Relational Databases, Data Structures & Algorithms, DBMS, Computer Networks, and Operating Systems.
- **Soft Skills:** Problem Solving, Analytical Thinking, Teamwork, Leadership, and Communication.

Positions of Responsibility

- **Placement Co-ordinator, IT:** Responsible for organizing and coordinating placement activities, liaising with recruiters, and ensuring smooth placement processes for students. *(2022-2026)*.
- **CIIPPUS, Finance Convenor:** Responsible for managing financial operations, budgeting, and financial planning for the FRESHER event *(2024)*.
- **SRIJAN, Sponsorship Head:** Led sponsorship acquisition efforts, fostering relationships with partners, and securing funding and resources for TECH FEST event and initiatives *(2025)*.