Sagar Pandey

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EDUCATION

Vellore Institute of Technology   Chennai, IND | July 2018 - May 2022
B.Tech - Computer Science and Engineering,   9.09/10 GPA

Aryaman Vikram Birla Institute of Learning   Haldwani, IND | April 2017 - March 2018
Higher Secondary - Maths and Science,   95.4%

WORK EXPERIENCE

AMERICAN EXPRESS | Credit Fraud Risk Analyst Intern   Gurugram, IND | Jan 2022 – Present
- Worked in the New Accounts team to implement critical business logic changes in on-boarding journey of customer.
- Designed and implemented **130+** rules and calculation logic for Credit line/limit/price across various markets.
- Deployed models responsible for assessing debt capacity and risk, resulted in revenue of **$13 Million**.
- Optimised **SQL-Hive** queries for faster retrieval from **CornerStone** database.

PHARMIQ | Software Development Engineer Intern   Delhi, IND | Aug 2021 – Jan 2022
- Implemented a web scrapper in **Python-Selenium** to scrape data from pharmaceutical websites.
- Implemented **Json** logging functionality from scratch for multiple servers.
- Developed Metrics server in **Golang** to track user actions and interactions with the platform.
- Worked with integration and optimisation of **PostgreSQL** to reduce schema complexity and querying time by **15%**.

AERO TELCOM SOLUTIONS | Software Development Engineer Intern   Delhi, IND | Dec 2020 – Mar 2021
- Scraped **100+** websites with **Python**, scraping & and automation tools like **Selenium, Scrapy, BeautifulSoup, UiPath**.
- Integrated **MongoDB** as primary database for the system.
- Implemented auto email functionality for clients using Python libraries like **smtplib** and **MIME**.
- Created **UML** diagrams and documented implemented features, to make the codebase more maintainable.

PROJECTS

FLASK BLOG WEBSITE ⬈   Python, Flask, SQLite, HTML, CSS
Responsive **Flask** web app that can handle multiple user's data regarding account and posts. Supports pagination, password hashing, custom error pages, automated email sending, etc.

PAPER ON ENHANCED DATA COMPRESSION ⬈   Data Compression, Text analysis, Encoding
Research work on various compression algorithms and analysis of their efficiency. **Devised new Compression algorithm**, with better efficiency using a **36** base encoding method.

GOOGLE PLAY STORE DATA ANALYSIS ⬈   Jupyter notebook, Visualisation, Machine Learning
Detailed analysis of data-set using various techniques to predict the number of expected downloads and rating for an app. Used algorithms like **K-Neighbor, Random Forest, Decision Tree** to achieve an accuracy of **92.5%**.

ACHIEVEMENTS AND CERTIFICATES

CodeChef: **4 Star** (1807 Rating)
HackerRank: **6 Star** Problem Solving, **5 Star** Python
HackerRank Problem Solving (Intermediate) **Certificate**
HackerRank Problem Solving (Basic) **Certificate**
HackerRank Python (Basic) **Certificate**
Android App Development **Certificate**

TECHNICAL SKILLS AND COMPETENCIES

Languages: Python, Java, C++, C, R   **Databases:** SQL, PostgreSQL, MongoDB, SQLite
Frameworks: Flask, Django, CUDA, OpenMP, Selenium   **Skills:** Problem Solving, Web Development, Machine Learning