

Sagar Pandey

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EDUCATION

Vellore Institute of Technology

B.TECH - COMPUTER SCIENCE AND ENGINEERING, 9.09/10 GPA

Chennai, IND | July 2018 - May 2022

Aryaman Vikram Birla Institute of Learning

HIGHER SECONDARY - MATHS AND SCIENCE, 95.4%

Haldwani, IND | April 2017 - March 2018

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 & 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

Frameworks: Flask, Django, CUDA, OpenMP, Selenium

Web Development: JavaScript, React, HTML/CSS

Databases: SQL, PostgreSQL, MongoDB, SQLite

Skills: Problem Solving, Web Development, Machine Learning

Technology: Git, Docker