SAMBHAV SHRESTHA

sambhavshrestha1@gmail.com | linkedin.com/in/sambhav101

github.com/sambhav101 | sambhav101.github.io/

EDUCATION

St. Joseph's College New York   **September 2018 - June 2022**
Bachelor's, Computer Science   *GPA: 3.98*
- Data Structures & Algorithms, Calculus I-IV, Linear Algebra, Databases, Software Engineering and System Design
- President's Scholar, Summa Cum Laude, Delta Epsilon Sigma

PROFESSIONAL EXPERIENCE

Tarifica   **New York, NY, USA**
Software/Data Engineer   *May 2023 - Present*
- Building and maintaining 300+ web scrapers using Python and BeautifulSoup for capturing raw data and transforming them to relevant SQL tables using PostgreSQL,
- Creating ETL and data pipelines using Flask framework to filter only the right amount of data and sending them for data analysis and visualizations,
- Renovating old legacy code to increase efficiency, readability, and accuracy of output data by employing various testing methods, adding new functions and, creating documentations

Amazon   **Seattle, WA, USA**
Software Development Engineer   *July 2022 - March 2023*
- Used AWS services like EC2, Lambda, Cloudwatch to design, develop and monitor live microservices running on Amazon-GO and Just-Walk-Out stores,
- Took sole ownership of project to upgrade and migrate a service into AWS, reducing cost, latency and tickets, creating new metrics and alarms, and automating the deployment to production,
- Programming on Java, Kotlin, Python, TypeScript, Ruby in a linux environment to deliver sprint tasks with high quality and on time

Google Cloud Platform   **Remote**
GCP Summer BootCamp Student   *July 2021 - September 2021*
- Completed a 5-course Coursera specialization focused on GCP Compute, Kubernetes, and App engine; deployed and managed VMs in the cloud, set up virtual private networks and load balancers, and created database in Cloud storage like Cloud SQL and BigQuery.
- Involved in hands-on labs and projects to design and build a simple system from scratch, automated deployment in the cloud using CI/CD pipelines, and created uptime checks and alerts for monitoring and logging.

Microsoft   **New York, NY, USA**
Data Science Student Research Fellow   *June 2021 - July 2021*
- One of 12 students selected and mentored by the leading scientists and principal engineers at MSR NYC to research topics in Machine Learning and Data Science,
- Researched papers and publications on statistical data analysis and performed replication, and extension on the same using R to generate new correlations,
- Created regression and machine learning models in R and presented the final results in beautiful visualizations

PROJECTS & OUTSIDE EXPERIENCE

Twitter Sentiment Analysis in R using rtweet (dplyr, tidyverse, ggplot):
- Developed a visualization dashboard that fetches tweets based on keywords and analyzes sentiment using a lexicon approach; added an extra feature that analyzes user input text using text mining and feature extraction and deployed it in shiny.

Stock Price Prediction using LSTM (Pandas, TensorFlow, Matplotlib)   **New York, NY, USA**
- Designed a deep recurrent neural network (RNN) that uses LSTM approach to model the data of different stocks obtained from alphavantage API; performed a time-series analysis to clean data; obtained an accuracy of 80%.

Replication and Extension of article "Police Officer Complaints"   **New York, NY, USA**
- Reproduced the results and graphs obtained in the article by using Bash to wrangle data and R to perform analysis and visualization; Further researched into the data to extend interesting findings and published it into shiny web app.

SKILLS

Skills: Python, Linux/Unix, Java, C/C++, Kotlin, R, Node.js, JavaScript, MySQL, Postgres, React.js, TypeScript
Tools and Technologies: AWS, Google Cloud Platform, Docker, Django, REST APIs, CI/CD, AI/Machine Learning, Pipelines