SAMBHAV SHRESTHA

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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*
- Developed and maintained 300+ web scrapers using Python, BeautifulSoup, and PostgreSQL to capture and transform raw data into SQL tables, ensuring robust data collection and storage.
- Created ETL and data pipelines with Flask framework to filter and deliver precise data for analysis and visualizations, optimizing data processing and insights generation.
- Revitalized legacy codebase by implementing rigorous testing methods, introducing new functions, and enhancing documentation, resulting in improved efficiency, readability, and data accuracy.

Amazon   **Seattle, WA, USA**
Software Development Engineer   *July 2022 - March 2023*
- Utilized AWS services including EC2, Lambda, and Cloudwatch to design, develop, and monitor live microservices for Amazon-GO and Just-Walk-Out stores, ensuring high availability and scalability.
- Solely owned and led a project to upgrade and migrate a service to AWS, resulting in cost reduction, decreased latency, improved metrics and alarms, and automated production deployment.
- Developed and delivered sprint tasks with high quality and on time using Java, Kotlin, Python, TypeScript, and Ruby in a Linux environment.

Google Cloud Platform   **Remote**
GCP Summer BootCamp Student   *July 2021 - September 2021*
- Completed a 5-course GCP specialization on Compute, Kubernetes, and App Engine, gaining expertise in cloud deployment and management.
- Deployed and managed VMs in the cloud, set up virtual private networks and load balancers, and created databases in Cloud storage like Cloud SQL and BigQuery, showcasing practical knowledge of hardware and development in a cloud environment.

Microsoft   **New York, NY, USA**
Data Science Student Research Fellow   *June 2021 - July 2021*
- Conducted research on machine learning and data science topics mentored by leading scientists and engineers at MSR NYC, focusing on statistical data analysis and replication using R to uncover new correlations.
- Developed regression and machine learning models in R to derive insights and presented the findings through visually appealing visualizations.
- Collaborated with peers to test and validate the developed models and methodologies, ensuring accuracy and reliability.

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