Sambhav Shrestha
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EDUCATION
St. Joseph's College, Brooklyn, NY
BS in Computer Science & Mathematics, June 2022 (anticipated) | **GPA 4.0**
- Honors & Activities: Presidential Scholar, Peer Tutor, Honors Student, Delta Epsilon Sigma, Dean's list, SJC Squared
- Relevant Courses: Algorithms & Data Structures, Databases, Multivariable Calculus, Linear Algebra, Prob & Stats

SKILLS
Languages:	Python, R, Bash, JavaScript, C/C++, MySQL, PostgreSQL
Libraries and Frameworks:	PyTorch, TensorFlow, Pandas, Selenium, OpenCV, Django, React, Flask
Tools and Technologies:	Linux, Docker, GCP Compute, Kubernetes, AWS EC2

EXPERIENCE
Tarifica, Manhattan, NY
Software/Data Engineering Intern | July 2021 – Present
- Building and maintaining web-scrapers; creating new Django Models, APIs, and reporting tools to optimize server performance.
- Using PostgreSQL to manage and report data into the dashboard for visualization and analytics,
- Working on regression models and sentimental analysis using NLP to analyze value and forecast growth of products

Google Cloud
GCP Summer Bootcamp Student| July 2021 – Sep 2021
- Completed 5-course Coursera specialization focused in GCP Compute, Kubernetes, and App engine; deployed and managed VMs in cloud, set up load balancer, and created database in Cloud storage like Cloud SQL and BigQuery.
- Earned skill badges by completing set of challenges in ML/AI, Kubernetes, Data Analytics, and web development in cloud.

Microsoft Research, Manhattan, NY
Data Science Student Researcher | June 2021 – July 2021
- One of 12 students selected and mentored by the leading scientists at MSR NYC to research various topics in Applied Statistics and Data Science
- Coded bash scripts/pipelines in Linux to obtain, inspect and wrangle data for firsthand analysis.
- Researched different papers and performed replication, and extension; analyzed the statistical significance of results.
- Used R packages (tidyverse, ggplot) to work on projects involving exploratory data analysis and statistical inferences; learned machine learning algorithms, model complexities and cross-validation for assessment and fitting.

JP Morgan & Chase, Online
Software Engineering Virtual Experience | Jun 2020 – July 2020
- Used React to build data visualization in frontend to observe the ratio of two stocks and trigger alerts
- Managed JP Morgan's self-built framework, Perspective, to stream analytics and data via Web Assembly

PROJECTS
Replication and Extension of article "Police Officer Complaints":
- 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.

Stock Price Prediction using LSTM (Pandas, TensorFlow, Matplotlib)**:**
- 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%.

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

Hand Drawn Digit Recognition App (JavaScript, TensorFlow, OpenCV, Flask):
- Created a flask app that predicts the hand-drawn digits with confidence percentage; developed deep convolutional neural network (CNN) achieving the accuracy of ~98%; used Ajax to asynchronously send data and deployed it in Heroku.

Other Projects:
- Notebook Android App, Facial key-points Detection, Credit card Fraud Detection, Minesweeper AI, Tic-tac-toe Bot.