Sambhav Shrestha

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EDUCATION

St. Joseph's College, Brooklyn, NY
BS in Computer Science & Mathematics, June 2022 (anticipated) | **GPA 3.97**
- **Relevant Courses**: Algorithms & Data Structures, Advanced Programming, Advanced Databases, Multivariable (Advanced) Calculus, Calculus III, Software Engineering, Mobile Applications, Linear Algebra, Probability & Statistics
- **Certificates**: Neural Networks and Deep Learning, CS50 Intro to AI,
- **Awards**: SJC President's Scholar, SJC Honors, Dean's list

SKILLS

Languages:	Python, R, Java, SQL, JavaScript, C
Libraries and Frameworks:	TensorFlow, Keras, Pandas, NumPy, SciPy, OpenCV, Matplotlib, ggplot2, dplyr, tidyr
Web:	HTML, CSS, Bootstrap, jQuery, React, Flask, Ajax, Shiny
Tools and Technologies:	Git, Android Studio, pyGame

EXPERIENCE

St. Joseph's College, Brooklyn, NY
IT Student Technician | Jan 2019 – Present
- Resolving any tech issues through phone or visiting onsite and providing fine customer service.
- Installed computers, projectors and tech networks in various campus events with technicians.

Peer Tutor | Jan 2021 – Present
- Tutoring students in Calculus, Java Programming, and Computer Applications and helped them to prepare for tests

JP Morgan Chase/InsideSherpa, Online
Software Engineering Virtual Experience | Jun 2020 – July 2020
- Fixed various bugs and tested code in Python to ensure the smooth running of application.
- Worked on data visualization techniques to observe the ratio of two stocks and trigger alerts.
- Used JP Morgan's self-built framework, perspective, to stream analytics and data via Web Assembly.

Web House Nepal, Kathmandu, Nepal
Web Development Intern | Apr 2017 – July 2017
- Designed and developed a fully responsive multipage site using JavaScript, CSS, Bootstrap, jQuery and Ajax.

PROJECTS

Twitter Sentiment Analysis in R (ggplot, tidyr, dplyr, shiny):
- Developed a shiny web application that fetches tweet data based on keyword and analyzes sentiment regarding it using lexicon approach; used ggplot and Wordcloud library for beautiful data visualization
- Added extra feature that analyzes user input text by using text mining and feature extraction.

Stock Price Prediction using LSTM (TensorFlow, RNN, Matplotlib):
- Designed a deep recurrent neural network (RNN) that uses Long-Short-Term Memory to learn the stock market data from timeseries data; used API to fetch data and Pandas library to format it for model training.
- Used Matplotlib to visualize the result and achieved predictions with compelling accuracy.

Hand Drawn Digit Recognition App (JavaScript, TensorFlow, OpenCV, Flask):
- Constructed a flask app that lets users draw any digits on canvas and predicts the number with confidence percentage.
- Developed deep convolutional neural network (CNN) using TensorFlow and SciPy library to preprocess and train the data; achieved a stunning accuracy of ~98% and deployed the app in Heroku.

AI in Games (Python, pyGame, Reinforcement Learning)
- Programmed an AI in games like Minesweeper, Tic-tac-toe, Crossword Solver, and Nim using pyGame for GUI.
- Used various techniques such as backtracking, minmax, Inference, and RL to build effective and undefeatable AI.