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, Java, SQL, JavaScript, C, Kotlin
Libraries and Frameworks:	TensorFlow, Keras, Pandas, NumPy, scikit-learn, OpenCV, Flask, Django
Web:	HTML, CSS, Bootstrap, jQuery, React, AWS EC2, Docker,
Tools and Technologies:	Linux, Git, Android Studio

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, HTML, CSS and Bootstrap.

PROJECTS

Stock Price Prediction using LSTM (Python, RNN, Matplotlib):

- Designed a recurrent neural network (RNN) that uses Long-Short-Term Memory to learn the stock market data from different range of timeseries.
- Used Matplotlib to visualize the result and obtained prediction with compelling accuracy.

Hand Drawn Digit Recognizer (Python, TensorFlow, OpenCV):

- Used convolutional neural network (CNN) to correctly identify hand-drawn digits, utilized Google's MNIST dataset
- Achieved an accuracy of ~ 95 %

Minesweeper AI (Python, pyGame)

- Constructed an AI for minesweeper game that uses inference from its knowledge base and applies backtracking algorithm to calculate safe moves in the board.
- Used pyGame for building minesweeper interface (project based on CS50).

Undefeatable Tic-tac-toe Bot (Python, Reinforcement Learning):

- Developed an undefeatable tic-tac-toe agent using minmax algorithm to find the best move every single time