SULABH KATILA

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EDUCATION

St. Joseph's University Expected Graduation: May 2026
BS (Honors) in Mathematics & Computer Science GPA: 3.96

- Honors and Awards: Honor's Program, Esse-Non Videri Excellence Scholarship, Dean's List

TECHNICAL SKILLS

Languages:	Python, C, Java, JavaScript/TypeScript, HTML/CSS, SQL
Tools & Technologies:	Git, GitHub, VS Code, Google Colaboratory
Libraries & Frameworks:	Pandas, NumPy, TensorFlow, Flask, Django, React

EXPERIENCE

Harvard University (Online) October 2022 – July 2023
Online Course Participant

- **CS50x**:
  Gained hands-on experience in problem-solving, algorithmic thinking, and programming with C, Python, and SQL.
- **CS50P**:
  Developed practical expertise in Python programming, incorporating test-driven development and debugging techniques.
- **CS50AI**:
  Applied AI/ML solutions for real-world applications including developing a Question Answering system, Minesweeper solver AI, traffic sign identification CNN, and predictive model for online shopping behavior.
- **CS50W**:
  Expanded proficiency in designing and deploying web applications using Python and JavaScript with frameworks such as Django and React, by completing projects including an email platform, social media web app, and e-commerce website.

St. Joseph's University February 2023 – May 2023
Peer Tutor, Volunteer

- Provided individualized tutoring in calculus and computer science courses, improving students' comprehension of challenging topics and facilitating their academic success.
- Developed customized study plans and teaching strategies, leveraging strong communication and leadership skills to create a collaborative and inclusive learning environment.

PROJECTS

Fake-News Classification: *Link*

- Conducted comprehensive data analysis on a handpicked dataset using Pandas, NumPy, NLTK, and Matplotlib to gain insights into the characteristics of true and fake news articles.
- Developed and trained a neural network with TensorFlow, achieving an 82% accuracy in classifying fake news, and further improved performance by incorporating a CNN.
- Performed detailed error analysis to identify patterns in misclassified instances, to gain insights into the limitations and biases of the models.

Full Stack Fitness Tracker: *Link*

- Developed a responsive and interactive front end using HTML, CSS, and JavaScript, enabling users to track caloric intake, monitor workouts, and achieve fitness goals with detailed nutrition tracking.
- Implemented a robust and efficient backend using Django and Python, ensuring seamless functionality and data management, and deployed the application using Railway.

Personal Portfolio: *Link*

- Created a dynamic single-page portfolio website using React, Vite, TypeScript, HTML, and CSS featuring my skills, education, and projects.

LEADERSHIP

Computer Club, Co-Vice President May 2023 - Present

- Co-lead a team of over 70 members in organizing and managing activities for the college computer club, fostering a vibrant community of technology enthusiasts.

Joe's Investment and Finance Club, Senate Representative November 2022 - Present

- Participated in discussions in Senate meetings, advocating for the club's interests and sharing ideas to improve campus life.