

Pratham Pritesh Shah

prathamshah@nyu.edu | +1(929) 687-6709 | [Portfolio Website](#) | [LinkedIn](#) | [GitHub](#) | New York, NY

Education

New York University | *M.S. Computer Science* Sept 2023-May 2025
New York, NY • Design and Analysis of Algorithms, Foundation of Data Science, Artificial Intelligence.

Vellore Institute of Technology | *B.Tech Computer Science and Engineering* July 2019-May 2023
Vellore, TN, India • Algorithms, Web Dev, AI, ML, DL, OS, Linear Algebra, Statistics, DBMS. CGPA: 8.54/10

Technical Skills

Programming languages: Python, C, C++, Java, HTML, CSS, JavaScript, R, MATLAB, MySQL, PHP.

Technologies: TensorFlow, Pandas, NumPy, Matplotlib, Scikit-learn, Visualization, Neural Networks, Machine Learning, NLP.

Work Experience

New York University | *Graduate Teaching Assistant: CS-GY 6543 & CS-UY 4543 HCI* Sept 2023-Present
• Succor Prof. Ray Lutzky by shepherding student inquiries, coordinating meetings, and managing announcements. New York, NY
• Provide essential feedback regarding course content and overall instruction for a class of 70+ students.

Government of India | *Business and Data Analysis Intern* Apr 2023-May 2023
• Collaborated on a social impact initiative led by Wing Commander Vijay Jadhav, evaluating market competition and refining business practices. Vadodara, India
• Employed **Python** to visualize 20+ years of data, creating a comprehensive business plan, lean canvas, and a compelling pitch deck.

SEE Linkages | *Data Science and Machine Learning Intern* Jun 2022-Sep 2022
• Preprocessed a dataset of 30+ products and 1000+ customers, enabling streamlined analysis. Vadodara, India
• Analyzed customer trends and product performance with Python, achieving over 90% accuracy using ML models like **Linear Regression, Random Forest, and Naive Bayes**.

AIM-PLAST | *Software Development Intern* Nov 2021-May 2022
• Developed an informative website using **HTML, CSS, and JavaScript**, serving 200+ clients, including global corporations like ABB, Alstom, and Schneider Electric. Vadodara, India
• Restructured and managed a **SQL** database for 500+ orders and quotations across 15+ products, boosting operational efficiency.

IBM and Smartinternz | *AI and Deep Learning Intern* Jun 2021-Aug 2021
• Pursued ML and DL techniques including **Regression, CNN, RNN, LSTM, and NLTK**. Hyderabad, India (remote)
• Leveraged **TensorFlow** to get high accuracy models (95%+) for sentiment analysis, object recognition, weather prediction, etc.

Leadership

International Society of Automation, VIT Chapter | *Board Member* Jan 2021-Dec 2021
• Organized and led 15+ national and international workshops, events, and hackathons, collaborating with dignitaries and faculty advisors. Vellore, India
• Mentored 60+ junior core members, guided 25+ sophomores as UI/UX Lead, and contributed to interdisciplinary projects like Hackathon app and core management app.

Projects

Image-to-Text Converter That Detects Language and Provides a Translated Summary

- Engineered an integrated system leveraging **OCR and NLP**, utilizing **EasyOCR** and **GoogleTrans**, to recognize, translate, and summarize text, seamlessly accessible through a user-friendly website interface, with less than 1s response time.

Malaria Detection Using CNN and IBM Cloud

- Implemented **CNN** on a blood smear image dataset with **TensorFlow**, achieving 96% malaria detection accuracy, and deployed the solution through **Flask** on **IBM Cloud**.

Sarcasm Detection Using RNN and LSTM

- Compared accuracies (95% + each) for sarcasm detection using models like **RNN and LSTM** on a twitter sarcasm dataset.

Auto-Image Colorization Using Autoencoders

- Incorporated **autoencoders** and **CNN** on the **CIFAR-10** dataset to automatically colorize grayscale images. Achieved 93% accuracy.

Raspberry Pi and cloud based smart security monitoring system for farms

- Executed motion detection using ultrasound sensor and **Raspberry Pi** camera, integrated with a machine learning model with 97% accuracy to classify potential threats and send corresponding alerts.

WhatsApp Activity Monitor

- Innovated a website allowing user to upload chats with 10000+ messages and used **Django** and **matplotlib** to draw graphs and statistics of the no. of messages sent by a person in a **WhatsApp** group to monitor their activity.