

Rushabh Maru

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EDUCATION

University of Pennsylvania

Incoming Master of Science in Computer and Information Science,

Teaching Assistant, Human-Computer Interaction (CIS 5120), Senior Project for Fall 2026, Spring 2027

Philadelphia, PA

Aug 2026 – May 2028

Veermata Jijabai Technological Institute

B.Tech in Computer Engineering (**Gold Medalist, Rank: 1**), CGPA: 3.93/4

Mumbai, India

Aug 2020 – Jun 2024

TECHNICAL SKILLS

Languages/Frameworks & tools: Java, Python, JavaScript, SQL, React.js, REST APIs, Spring Boot, Node.js, NumPy, Pandas, FastAPI, Sklearn, PyTorch, TensorFlow, Gen-AI tools, LangChain, LLMs, Cypress, Q, Git, Swagger

Distributed Systems, Databases & Cloud: AWS, Docker, Microservices, Linux, MongoDB, MySQL, PostgreSQL

Coursework: Design and Analysis of Algorithms, Machine Learning, Operating Systems, DBMS, System Design

WORK EXPERIENCE

Citi Corp

Pune, India

Technology Analyst II

July 2025 – July 2026

- Architected and developed FastAPI microservices for AWS S3 integrations and automated API validation pipelines, **reducing manual effort by 20%** while improving deployment reliability.
- Designed an AI pipeline for document classification and extraction, increasing document processing throughput by 40%.

Technology Analyst I

July 2024 – July 2025

- Engineered an end-to-end UI and database automation framework using Cypress, reducing manual regression effort by 60% and earning Citi's Gold Award for **operational excellence and cross-functional collaboration**.
- Designed and deployed a **Spring Boot microservice** for systematic data discrepancy reporting and cross-environment database validation, improving deployment clarity and increasing database transparency by **40%**.

Summer Intern Analyst

March 2023 – July 2023

- Developed a Python-based analytics pipeline and Angular dashboard that reduced analysis effort by **30%** while improving operational visibility, tested real-time data to identify anomalies within the data pipeline, which **optimized accuracy by 15%**.

PROJECTS AND PUBLICATIONS

Improved Faster-RCNN for Ripeness and Size Detection of Mangoes

IEEE Conference Publication - Nov 2024

- Advanced and validated an improved **Resnet-based Faster RCNN model** in Py-Torch for multi-label classification and object detection, accurately estimating mango ripeness and size.
- Presented and published the paper "Improved Faster-RCNN for Ripeness and Size Estimation of Mangoes with Multi-label Output" at the **IEEE International Conference on Computational Intelligence and Network Systems, Dubai**.

Sage Mind

ReactJS, Express, Gen-ai -

- Architected a full-stack AI platform using React, Node.js, MongoDB, FastAPI, and LLM APIs to deliver real-time conversational assistance and mood tracking.
- Designed scalable MERN architecture with secure JWT authentication, conversation analytics, and real-time AI response generation using LLMs, FastAPI-style APIs, and MongoDB persistence.

Talent Sustain IQ

Flask, TensorFlow, XGBoost -

- Integrated an **XGBoost-powered employee retention prediction system** with employment history and organization factors.
- Featured the system with an error logging system, **REST API** for training data, proper data management, and a news page

COURSES & CERTIFICATIONS

- Google Cyber-security Professional Certificate** – Google (Nov 2023), **Blockchain and Cryptocurrency** – University of Michigan (Sep 2023), **IBM Data Analyst Certification** – Coursera (Dec 2022)
- Data Analytics Essentials, Data Science Essentials** (Sep 2023), **Networking Basics** (Nov 2022) – Cisco
- Oracle Certified Java Associate** – Oracle (Mar 2021)

EXTRACURRICULAR ACTIVITIES

- Joined Rotaract Club; participated in tree-plantation drives and helped organize **Literary 2023**, a book donation drive.
- Volunteered in organizing a **blood donation camp** and **seed ball-making event** at Citibank (2024–25).
- Served as **Branch Captain** for Basketball and Table Tennis at Enthusia-VJTI (2022), mentoring and representing the team.
- Collaborated with **Enactus-VJTI** to build an app improving educational accessibility for underprivileged students (2022).
- Core member of the **Machine Learning Team** at Google Developer Student Club and at Community of Coders, and conducted **Data Science workshops** on regression, forecasting, and mentored juniors on their projects (2021–22).
- First runner-up in state high-school board exams (97.3%); recognized for academic excellence.