HEET MEHTA

Brooklyn, New York | mehtaheet5@gmail.com | LinkedIn | Portfolio

EDUCATION

New York University, Tandon School of Engineering
Masters in Computer Science
Relevant Courses: Software Engineering, Design & Analysis of Algorithms, Machine Learning

May 2027 (Expected)
Brooklyn, New York

Vellore Institute of Technology
Bachelor of Technology in Information Technology

June 2025
Tamil Nadu, India
Cumulative GPA: 9.14/10

EXPERIENCE

Bhabha Atomic Research Centre (BARC)
Project Intern

December 2024-May 2025
Mumbai, India

- Developed and deployed a Bluetooth Low Energy (BLE) based visitor tracking system using Python, BlueZ, and multithreaded socket programming to monitor and detect up to 500 Bluetooth devices in real-time.
- Implemented RSSI-based trilateration algorithms for accurate indoor positioning, leveraging NumPy, SciPy, and Kalman filtering to achieve 1-meter localization accuracy.

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Software Development Intern

May 2024 -August 2024
Lucknow, India

- Collaborated with cross-functional teams to develop a predictive maintenance system using Python, Scikit-learn, and AWS Lambda, enhancing the safety and reliability of bridges, tunnels, and dams. This reduces the critical infrastructure failures by 40%
- Integrated and streamed sensor data from more than 20 geotechnical monitoring systems via MQTT and AWS IoT Core, with real-time dashboards using Plotly, D3.js, and CloudWatch for structural health monitoring.

UNIVERSITY PROJECTS

Titan - ML Pipeline for Retail Analytics

August 2024

- Built a modular machine learning pipeline using Python, Scikit-learn, Docker, and Apache Airflow to automate customer churn prediction for a mid-sized retail business, integrating real-time data ingestion, preprocessing, training, and deployment.
- Reduced model training time by 22% and improved pipeline reliability by implementing data caching, feature selection, and batch scheduling, enabling scalable deployment and faster iteration cycles.

Ether Auction

October 2023

- Designed and launched a secure, decentralized auction platform using Solidity smart contracts and Ethereum to enable transparent bidding and ownership transfer for digital assets across 15+ product categories.
- Integrated Web3.js, MetaMask, and Ganache for blockchain interaction, reducing transaction overhead by 3% through gas optimization and efficient contract design.

PUBLICATIONS

Journal Name: IEEE Xplore
Paper Title: Applications of Machine Learning in Detecting Unethical Sources of Raw Materials in Supply Chains in the Cosmetic Industry
Issue: 4th International Conference on Sustainable Expert Systems (ICSES 2024)

SKILLS

Languages	Python, Java, Swift, C, C++, JavaScript, SQL
Libraries/Frameworks	React.js, Xcode, Scikit-learn, TensorFlow, PyTorch, Pandas, CICS
Tools	Git, Docker, Streamlit, Firebase, Postman, VS Code, JIRA, Spark
Cloud & DevOps	AWS, Google Cloud, GitHub Actions
Software	Microsoft Office, Google Suite, LaTeX
Domains	Full-Stack Development, Machine Learning, Data Analytics, Blockchain (Solidity, Web3.js)