

HEET MANISH MEHTA

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY

Vellore, Tamil Nadu

Bachelor of Technology

June 2025

Major in Information Technology

Cumulative GPA: 9.14/10;

Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Data Structures & Algorithms;

Artificial Intelligence; Machine Learning; Computer Networks; Internet Of Things; Web Development; Information Security Analysis.

PROFESSIONAL/INTERNSHIP EXPERIENCE

ENCARDIO RITE PRIVATE LTD.

Lucknow, Uttar Pradesh

Software Development Intern

May 2024 -August 2024

- Engineered and executed a predictive maintenance system using Python and machine learning, enhancing the safety and reliability of bridges, tunnels, and dams. This reduces the critical infrastructure failures by 40%
- Integrated sensor data from 20 geotechnical monitoring systems to provide continuous health assessments of mega structures.
- Created interactive dashboards using React.JS and D3.js to visualize structural health metrics, predictive analytics and maintenance alerts enabling engineers to make informed decisions quickly.

BHABHA ATOMIC RESEARCH CENTRE (BARC)

Mumbai, Maharashtra

Project Intern

August 2023-September 2023

- Developed and deployed a Bluetooth Low Energy (BLE) based visitor tracking system using Raspberry Pi and BLE beacons to monitor and detect up to 500 Bluetooth devices in real-time.
- Implemented trilateration algorithms for accurate indoor positioning, achieving an accuracy of a 1-meter radius in device localization.

UNIVERSITY PROJECTS

DIABETIC RETINOPATHY DETECTION APP

August 2024

- Built an AI-powered web application for detecting diabetic retinopathy from retinal images, using Streamlit, Python, and Scikit-learn, which enabled immediate, on-demand screening.
- Achieved a detection accuracy increase of 25% by refining the machine learning model with advanced hyperparameter tuning and cross-validation techniques.
- Reduced prediction processing time by 30% through image preprocessing optimizations and model inference improvements.

ETHER AUCTION

October 2022

- Designed and launched EtherAuction, an innovative auction platform leveraging the Ethereum blockchain to facilitate seamless transactions and secure bidding on a diverse range of 15 products.
- Executed smart contract functionalities using Solidity and integrated Web3.js for Ethereum blockchain interaction reducing transaction fees by 3%

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

Paper Type: Conference Paper

Issue: 4th International Conference on Sustainable Expert Systems (ICSSES 2024)

CO-CURRICULAR ACTIVITIES

MOZILLA FIREFOX CLUB- VIT

Committee Member

Vellore, Tamil Nadu
February 2023– April 2024

- Coordinated events attended by 200+ participants annually, promoting web literacy and open-source contributions.
- Conducted bi-monthly workshops with an average attendance of 50 members, enhancing the skills in the field of web development and Firefox browser customization.
- Organized annual hackathons with 150+ participants resulting in 20 prototype applications developed using Mozilla technologies.

CERTIFICATIONS AND TRAINING

- Applied Data Science With Python-IBM
- Data Analysis With Python-IBM
- Data Visualization With Python-IBM
- Python 101 for Data Science-IBM,

TEACHING AND LEADERSHIP EXPERIENCE

BECOMING I FOUNDATION- VIT (NGO)

Head of Finance Department

Vellore, Tamil Nadu
January 2023-January 2024

- Managed a team of 120 students to ensure accurate budgeting, reporting, and compliance.
- Secured and managed sponsorships, increasing financial support for underprivileged students by 5% over the previous year.
- Formed strategies to optimize resource allocation to reduce operational costs by 4% and maximize impact.

SKILLS

Non-Technical: Public Speaking, Workshop Delivery, Technical Writing, Peer Tutoring, Team Mentorship, Event Coordination, Budget Management, Stakeholder Communication, Time Management, Multitasking, Documentation, Reporting, Resource Allocation.

Technical: SQL, Python, Java, TensorFlow, PHP, Javascript, HTML/CSS, MATLAB, Data Analysis, C++, C, Typescript, ReactJS, Firebase, Tailwind, Word, PowerPoint, Prompt Engineering, Scikit-Learn, Keras, PyTorch, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, Natural Language Processing (NLP), Model Evaluation, Feature Engineering, Hyperparameter Tuning.

Awards: 2nd Place in Maharashtra-All India Open English Scholarship Examination (2012); 3rd Place in Maharashtra-French Olympiad (2017).

PERSONAL DETAILS

Name: Heet Manish Mehta

Date of Birth: 8th May 2003

Languages Known: Fluent in English, Hindi, Gujarati; Conversational Proficiency in French, Spanish, Marathi.

Passport Number: U5812064