

MEHUL VERMA

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SUMMARY

Technically proficient with a strong foundation in machine learning, back-end development, and UI enhancement. Holds a **Bachelor's in Computer Applications from CHRIST University** and an **MSc in Computing (Artificial Intelligence) from Dublin City University (pending results)**. Experienced in data preprocessing, reinforcement learning, CNNs, and ReactJS, with strengths in leadership, design, and stakeholder coordination.

SKILLS

Technical Skills	C, C++, Python, React, Java, Artificial Intelligence, Data Science
Frameworks/Tools	Git, SQL, PyTorch, TensorFlow, ReactJS
Soft Skills	Multitasking, Statistical Analysis, Teamwork, Good Communication

EDUCATION

Masters in Computing (Artificial Intelligence), Dublin City University, Ireland	Sep 24 – Aug 25
Bachelor of Computer Applications, CHRIST (Deemed to be University), India	Aug 21- Jun 24
XII (CBSE), Manav Sthali School, India	Apr 20 – Mar 21

EXPERIENCE

Machine Learning Intern (Internship)

Aphelia Innovations, New Delhi, India

Dec 2023 – Apr 2024

- Conducted a comprehensive analysis to identify numerous critical issues and established two primary objectives during the goal-setting phase.
- Assessed over 10 machine learning libraries and frameworks—including Scikit-learn, TensorFlow, and PyTorch—evaluating the performance, scalability, and community support to determine the most suitable tools for model development.
- Processed and cleaned more than a decade of historical stock data (~500,000 entries) along with over 20,000 financial news articles to facilitate the development of time-series and natural language processing models.

Back-end Web Developer (Internship)

CodersBake, Ghaziabad, India

Jun 2022 – May 2023

- Optimized website layouts to improve navigation flow and visual aesthetics, enhancing overall user experience and boosting user engagement.
- Translated user requirements into actionable project designs and execution plans, bridging stakeholder needs and development workflows.
- Revamped ReactJS-based landing pages to deliver seamless cross-browser compatibility and consistent functionality across diverse platforms.

IT Technical Operations Lead (Internship)

Upedian, Ghaziabad, India

Mar 2023 – May 2023

- Pioneered the company website from scratch, designing and developing a scalable, polished platform that established the brand's digital presence.
- Coordinated workstreams across 10 team members and 3 leadership stakeholders, aligning priorities and maintaining momentum toward project milestones.
- Fostered open communication and team engagement, motivating contributors and sustaining high morale throughout the development lifecycle.

PROJECTS

Chatbot in R

In collaboration with St. James's Hospital, a clinician-facing chatbot was developed to simplify access to heart failure (HF) data in electronic patient records. Built using R Shiny and aligned with data governance policies, the tool supports natural language queries for both individual and cohort-level analysis. The system features rule-based query interpretation, visual outputs, user authentication, and clinical safety measures. Developed using Agile methodology, and validated with synthetic data and clinician feedback. A lightweight local large language model (Mistral) is currently being integrated to enhance functionality while preserving data privacy.

Plant AI

Designed and implemented a PyTorch-based image classifier using transfer-learned ResNet-34 on the PlantVillage dataset (38 classes), achieving ~98% accuracy in distinguishing diseased versus healthy plant leaves across 14 species.

Chrome Start-up Page

Engineered a revamped Chrome startup page featuring custom macros for streamlined access to frequent sites (e.g., GitHub, YouTube), built-in redirects for uncategorized URLs, and a polished, user-first interface designed to boost navigation speed and visual engagement.

CERTIFICATIONS

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| • Certification of "FIRST LEGO League Judge" | Feb 2025 |
| • Certified Google Analytics Individual Qualification | Aug 2023 – Aug 2026 |
| • Certification of Workshop in IOT | Mar 2023 |
| • Certification of "Programming in Python" | Feb 2023 |

EXTRA CURRICULAR ACTIVITIES

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| • Judged two FIRST LEGO Leagues at DCU St Patrick's Campus, Ireland. | Mar 2025 |
| • Won the "Innovative Project" title in First Lego League held at DCU, Ireland. | Sept 2024 |
| • Won the "Core Value" title in the First Lego League held at DCU, Ireland. | Mar 2025 |
| • Participation certificate for HACKVSIT 5.0, organized at VIPS, India. | Apr 2024 |