MEHUL VERMA

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Pursuing MSc in Computing (AI) at Dublin City University, Ireland; BCA Graduate from CHRIST University, India; Passionate about leveraging technology to drive impactful results in IT & software development, with a focus on innovation, efficiency, and scalable solutions.

EDUCATION

Masters in Computing (Artificial Intelligence), Dublin City University (DCU), Ireland	Sept 2024 – Present
Bachelor of Computer Applications, CHRIST (Deemed to be University), India	Aug 2021 – Jun 2024
XII (CBSE), Manav Sthali School, India	Apr 2020 – Mar 2021

SKILLS

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

RELEVANT EXPERIENCE

Machine Learning Intern (Internship) — Dec 2023 - Apr 2024
Aphelia Innovations — Delhi, India
- Identified numerous key issues and 2 primary objectives while establishing goals.
- Evaluated 10+ machine learning libraries and frameworks (e.g., Scikit-learn, TensorFlow, PyTorch) based on performance, scalability, and community support to identify the most suitable options for model development.
- Cleaned and pre-processed 10+ years of historical stock data (~500,000+ entries) and 20,000+ financial news articles to support time-series and NLP model development.

Back-end Web Developer — Jun 2022 - May 2023
CodersBake — Ghaziabad, India
- Revamped website layouts to notably improve user navigation and elevate visual appeal, resulting in enhanced user experience and engagement.
- Transformed user requirements into project designs and implementation plans.
- Overhauled ReactJS landing pages to ensure smooth functionality across a wide range of browsers.

IT Technical Operations Lead (Internship) — Mar 2023 - May 2023
Upedian — Ghaziabad, India
- Designed and built the company's website from the ground up.
- Liaising with 10 team members and 3 management members to ensure that the project leads to success.
- Encouraging open communication while inspiring team members to stay engaged and motivated.

Volunteer work (social media and Graphic Designer) — Dec 2023- Feb 2024
Happiness Exchange - NGO — Noida, India
- Produced creative social media assets, including posters and banners, to boost engagement.
- Built 2 web design options and 7 content ideas for the NGO's online presence.

PROJECTS

AI-Driven Snake Game   Dec 2024 - May 2025
- Designed and developed a Python-based Snake Game with an AI integration to automate gameplay.
- Developed game mechanics using pygame, including grid-based movement, collision detection, and score tracking.
- Created a pathfinding AI using A* algorithm to enable the snake to locate and consume food optimally.
- Experimenting with Reinforcement Learning (DQN) for advanced AI behavior, training the agent to optimize survival and maximize score.
- Enhanced the game with animations, scalable difficulty levels, and a user-friendly interface.

Plant AI   Jul 2022 - Mar 2023
- Built an image classifier using the Plant Disease Dataset from Kaggle, leveraging the PyTorch framework for implementation.
- Implemented a Convolutional Neural Network (CNN) and applied transfer learning using the ResNet34 pretrained model to classify 38 classes of plant leaves.
- Achieved 98% accuracy in detecting diseased and healthy leaves across 14 unique plant species.

Chrome Startup Page   Sept 2021 - May 2022
- Redesigned and enhanced the Chrome startup page, incorporating macros for quick access to frequently used websites like GitHub, YouTube, among others while maintaining the traditional search functionality.
- Integrated redirects for websites not included in the macros, improving user navigation and overall efficiency.
- Focused on creating a visually appealing and user-friendly interface to enhance the browsing experience.

CERTIFICATIONS

- 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

- 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
- Participation certificate for HACKVSIT 5.0, organized at VIPS, India   Apr 2024
- Instrumental in Annual Athletic Meet at CHRIST (Deemed to be University), India   Apr 2023
- Directed the preparation and execution of events for Teacher's Day at CHRIST (Deemed to be University), India   Sept 2022