

DHRUV PATEL

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Dynamic researcher and passionate educator with a strong academic background in Computer Science and Informatics, currently pursuing a Ph.D. and awarded a Vice Chancellor Scholarship for academic excellence. Experienced in Neural Networks, NLP, Artificial Intelligence, software development, IoT and Machine Learning systems.

EDUCATION

Ph.D. | Computer Science and Informatics **Apr 2023 – Present**

University of Huddersfield | Huddersfield | United Kingdom

- Awarded Vice Chancellor Scholarship (2023-2026) for academic excellence.
- Research Title: Multimodal AI Framework for Detecting Emotions and Narcissistic Personality Disorder.

Master of Science | Internet of Things **Jan 2022 – Feb 2023**

University of Huddersfield | Huddersfield | United Kingdom

- Graduated with Distinction for exceptional academic performance.
- Dissertation: Design and Development of IoT-Based Heating System for Homes, focusing on energy efficiency and smart technology integration.

Bachelor of Technology | Electronics & Communication Engineering **Sep 2017 – May 2021**

Dharmsinh Desai University | Nadiad | India

- Graduated with Distinction and awarded Upper First-Class Honors for outstanding achievements.
- Member of DDU IEEE Student Branch, contributing to technical workshops and seminars.

PUBLICATIONS AND CONFERENCES

- D. Patel and A. P. Johnson, "Detecting Narcissistic Personality Disorder (NPD): A Hybrid Regex and NLP-Based AI Approach With Phase-Aware Classification," in IEEE Access, vol. 13, pp. 185011-185024, 2025, doi: 10.1109/ACCESS.2025.3624864.
- D. Patel, A. W. Qurashi and A. P. Johnson, "Robust Facial Emotion Detection in Low-Light Conditions: A Novel Approach Using Real-Time WebSocket Data Transfer," 2024 Sixth International Conference on Intelligent Computing in Data Sciences (ICDS), Marrakech, Morocco, 2024, pp. 1-6, doi: 10.1109/ICDS62089.2024.10756352.

RELEVANT EXPERIENCE

Vision for Education **Jul 2024 to Present**

Cover Supervisor | Part-time | Manchester | United Kingdom

Responsibilities:

- Providing classroom supervision and maintaining order in the absence of teachers.
- Delivering pre-prepared lesson plans and assisting students with tasks to ensure continuous learning.

The University of Sheffield Advanced Manufacturing Research Centre (AMRC) North-West **Nov 2024 to Dec 2024**

Internship | Blackburn | United Kingdom

Responsibilities:

- Testing 5G connectivity with Spot robots and PocketNC machines to optimize real-time data transfer and machine coordination.

- Conducting assessments on 5G's impact on automation efficiency and latency in industrial environments.
- Collaborating on integrating 5G technology to enhance precision and responsiveness in robotic and PocketNC operations.

University Of Huddersfield**Jan 2024 to Apr 2024**

Teaching Assistant | Huddersfield | United Kingdom

Responsibilities:

- Assisted Dr. Anju Johnson in delivering lab sessions on computer programming to final-year students.
- Provided individual support during exercises, helped troubleshoot code and clarified complex concepts.

Larsen & Toubro Limited**Dec 2020 to Dec 2021**

Office Support(IT) | Hajira | India

Responsibilities:

- Assisted in engineering projects, gaining exposure to technical operations and project management.
- Participated in workshops and hands-on training sessions, improving knowledge of industrial processes.

Aditya Industech Pvt. Ltd.**Oct 2020 to Dec 2020**

Trainee | Surat | India

Responsibilities:

- Supported ongoing industrial projects by contributing to data collection and analysis.
- Assisted in process improvement initiatives and gained practical exposure to industrial operations.

PROJECTS

Timli: An AI Based Job Applications Tracker**2025**

The University of Huddersfield

- An AI-powered Chrome extension that automatically parses Gmail for job applications to build and dynamically update a status-tracking spreadsheet.

DimLight Detect**2024**

The University of Huddersfield

- Engineered a robust face detection system optimized for low-light environments, improving accuracy and reliability in challenging conditions for applications such as security systems and mobile photography.

AgroVanguard: Leading-Edge Predictive Analytics for Future Farming**2022**

The University of Huddersfield

- Led the development of AgroVanguard, an innovative system leveraging advanced predictive analytics and machine learning to revolutionize farming.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Embedded C, JavaScript, R, SQL, HTML/CSS**AI & Machine Learning:** Natural Language Processing (NLP), Neural Networks, Deep Learning, Machine Learning, Predictive Analytics, Image Preprocessing, Computer Vision, Generative AI**Systems & Tools:** Robot Operating System (ROS), Embedded System Design, VLSI, Git, SQL, High-Performance Computing (HPC), PyTorch, TensorFlow, Keras, Hugging Face Transformers, Microsoft Azure Machine Learning**Core Concepts:** Software Development, Research, Data Collection & Analysis, Circuit Designing

LANGUAGES

English (Bilingual/Professional) • Hindi (Bilingual/Native) • Gujarati (Bilingual/Native)