

Dinesh Yadav

Machine Learning/NLP Enthusiast

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Education

- Cluster Innovation Center, Delhi University,** 2022 - 2026
BTech in Information Technology and Mathematical Innovation, Current CGPA: 8.34
- Navjeevan Science School, Sikar, Rajasthan, Class 12th, RBSE (State Board)** 2019
- Class 12th: Percentage: 84.20%

Work Experience

- DSKC Centre for Research & Innovation in Science Education** — *Research Project* June - September 2024
Title Hybrid Approach for Sentiment and Intent Detection Using Transformers and ML Models : A Comparative Study
Developed a hybrid model integrating ML and transformers for context-based intent and sentiment analysis tailored to the transgender community, currently in the final stage of manuscript preparation for publication.
- **Younity.in, Delhi** — *Intern & Management Trainee in Sales and Marketing* March - May, 2023
 - Mentored a team of 68 interns and ensured target achievement
 - Additionally, it enhanced my communication skills, and managing trainees provided valuable real-world experience in human resource management.

Academic Projects

- **Machine Learning-Driven Injury Detection and Risk Prediction in Football Athletes** 
 - Tools: Python, HuggingFace, Flask, Google Drive, HTML, CSS
 - Collected weekly NFL player data, including training history and injuries.
 - Implemented machine learning models to predict future injuries, achieved an 89% accuracy using Random Forest
- **Transforming Complex Texts into Clear Insights with LLMs** 
 - Tools: Python, HuggingFace, Transformers, PyTorch, OpenAI API, LangChain
 - Developed a hybrid model combining machine learning and transformers to simplify complex texts.
 - Focused on simplifying technical and verbose texts while preserving their core meanings. used LLMs to generate semantically similar variations for improved readability across audiences.
- **Image generation and privacy preservation using unauthorised deep learning** 
 - Tools: Python, OpenCV, Flutter, Firebase, Flask, diffusion models, GANs
 - Will be reproducing a research paper and generate variations of a reference image, focusing on facial data. The model should generate diverse yet semantically similar images, varying in angles, lighting, or expressions, while preserving key input features.

Certifications

- **IBM Machine Learning with python** – Coursera, October 2023
- **Complete Data Science, Machine Learning, DL, NLP Bootcamp** – Udemy, December 2024
- **Complete Generative AI Course With Langchain and Huggingface** – Udemy, Ongoing

Skills

- **Programming Languages:** Python, Java, c
- **Libraries & Tools:** Numpy, Pandas, Matplotlib, Seaborn, OpenCV, Scikit-learn, Keras, Flask, HuggingFace
- **Frameworks:** TensorFlow, Pytorch
- **Databases:** MySQL
- **Machine Learning Techniques:** ANN, RNN, LSTM RNN, Natural Language Processing, CNN, Sequence Models, Reservoir Networks, GANs
- **Hardwares:** Arduino, ESP32 & variants, Sensors

Extracurricular Activities

- *National Cadet Corps (NCC) Member | Managing the organization's social media handle while enhancing leadership, discipline, and teamwork skills through structured training and community service initiatives.*
- *Midfielder in the College Football Team at Cluster Innovation Center (CIC)*
- *Core Committee Member of Delhi University's Largest Tech Fest, ConVoke'24*
- *Hostel Sports Secretary, Mansarowar Hostel, University of Delhi*

Achievements in Sports

- *2nd Place in International Student House Hostel's Marathon, 2024*
- *2nd place in Badminton Doubles at in Shaheed Bhagat Singh College, University of Delhi*
- *Been a key member of the college Football Team*