

Dinesh Yadav

Machine Learning/NLP Enthusiast

India | dineshyadav.2022@cic.du.ac.in | <https://github.com/Dinesh525-web> | linkedin.com/in/dineshyadav01

Education

Cluster Innovation Center, Delhi University, BTech in Information Technology and Mathematical Innovation, Current CGPA: 8.57 Navjeevan Science School, Sikar, Rajasthan, Class 12th, RBSE (State Board) • Class 12th: Percentage: 84.20%	2022 - 2026
	2019

Work Experience

DSKC Centre for Research & Innovation in Science Education — Research Project 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.	June - September 2024
--	-----------------------

• Younity.in, Delhi — Intern & Management Trainee in Sales and Marketing • 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.	March - May, 2023
---	-------------------

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