

Dinesh Yadav

Machine Learning/NLP Enthusiast

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Education

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

Work Experience

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| DSKC Centre for Research & Innovation in Science Education — <i>Research Project</i> | 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

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- **Machine Learning-Driven Injury Detection and Risk Prediction in Football Athletes**  **GitHub**
 - 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**  **GitHub**
 - 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**  **GitHub**
 - 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

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- **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

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- **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