Bisho Kumar Yadav

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Education

MNIT, Jaipur July 2021 – Present
Bachelor of Technology in Electronics & communication Engineering *CGPA: 7.56*

L.N.J.College, Jhanjharpur April 2017 — March 2019
Intermediate in Science *Percentage: 78.6*

Kejriwal High School, Jhanjharpur April 2015 — March 2017
Marticulation *Percentage: 77.2*

Experience

Machine Learning Intern June. 2024 – Jan. 2025
Novus Hi-Tech & Robotics Systemzs Limited *Gurugram, Harayana*

- Designed and implemented end-to-end machine learning pipelines, covering data collection, preprocessing, model training, and deployment to ensure reliable and scalable workflows.
- Collaborated with software engineers and product teams to define data requirements, align model outputs with business objectives, and integrate models into product applications.
- **Traffic Sign Recognition:** Developed a deep learning model using YOLOv8 and CNN to detect traffic signs. Utilized TensorFlow, OpenCV, and relevant tools with datasets from Kaggle and real-world truck-collected data.
- **Face Detection and Recognition with Spoofing:** Implemented a facial recognition system using the DeepFace model to detect and recognize individuals. Integrated spoof detection to differentiate between real and fake faces.
- **Object Detection and Segmentation:** used the YOLOv8 Nano model to segment and detect objects in various environments, enhancing scene understanding and object classification.
- **Heart Rate Estimation:** Built a model to predict human heart rates from video and image inputs, providing frame-by-frame analysis for accurate heart rate estimation.

Projects

CSV Q&A Chatbot | *AI* May 2024 – June 2024

- It is a **Gradio-based** application that enables users to upload a CSV file, ask questions (both textual and numerical) about its contents, and receive responses from a local Large Language Model (LLM).
- Provides graph plotting capabilities, ensuring all visualizations are displayed directly within the Gradio interface
- Gradio,Pydantic AI,Ollama are used for implementation of this project.

Handwritten Digit recognition | *Deep Learning* March 2024 – April 2024

- It is a deep learning model to classify handwritten digits using **CNN** and **TensorFlow/Keras.**
- Leveraged MNIST dataset for training and optimized the model for accuracy. Executed real-time digit recognition using OpenCV for preprocessing.
- I have used **YOLOv8** (for real-time recognition), Vision Transformers (ViTs) for improved accuracy over CNNs, TensorFlow/Keras.

Sentiment Analysis | *NLP* Feb 2025 – March 2025

- Build an **NLP-based** Sentiment Analysis model to analyze text and generate sentiment ratings. Employed Transformers-based models such as BERT or GPT for accurate sentiment classification.
- Fine-tuned the model on domain-specific datasets to enhance performance. Enforced using Hugging Face's Transformers, TensorFlow/PyTorch, and spaCy/NLTK for text preprocessing.
- Hugging Face Transformers & PyTorch/TensorFlow for model training

Technical Skills

Data Analysis: Statistical Analysis, ETL Processes, Data Mining, Business Intelligence, Predictive Modeling, A/B Testing
Languages: C/C++, Python, SQL, JavaScript, HTML/CSS
Data Visualization: Power BI, Tableau, Advanced Excel, Streamlit, Matplotlib
Course Works: Data Structures and Algorithms, OOPS, OS, DBMS, Computer Networks, Machine Learning, NLP
Developer Tools: Git, Docker, MS Excel, MS PowerPoint, Vs Code, Redash, Jupyter-notebook and Autonomous technology