



Nishant Sharma

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Electrical Engineering

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Github | Website

EXPERIENCE

•Undergraduate Researcher

Jan 2023 - April 2023

Jointly under Prof Ravi Yadav and Prof Saran Aadhar

IITJ

- Conducted an in-depth analysis of the impact of climate change on Renewable energy production.
- Collected data from various resources and applied statistical analysis and Machine Learning tools
- Identified a high correlation between increasing heat waves and wind energy production, and used time series forecasting to understand the future impact of current climate crises.

PROJECTS

–Text-Summarizer

Oct. 2023

An end-to-end text summarization project using Hugging Face's Pegasus model API.

Github

- * Engineered and implemented a comprehensive data pipeline, encompassing data ingestion, transformation, validation, model training, and evaluation
- * Created a user-friendly UI with FastAPI, seamlessly integrating it with a robust data pipeline for optimal model interaction. and achieved commendable ROUGE scores, demonstrating proficiency in model development.

–Neural Style Transfer

Sept 2023

Developed an application to transform images using the styles of famous artworks.

Github

- * Integrated a customizable interface that allows users to adjust key parameters such as alpha (content weight) and beta (style weight), providing them with greater control over the style transfer process
- * This feature not only enhanced the user experience but also provided insights into the impact of different parameters on the Neural Style Transfer algorithm.

–Student Performance Analysis

June 2023

Led a data-driven project to predict math scores using machine learning models.

Github

- * Designed a robust data processing pipeline for machine learning, using EDA
- * Developed predictive models for math scores using regression models, achieving an r^2 score of 0.8660.
- * Implemented a robust exception-handling system and developed a user-friendly Flask interface for result presentation.

EDUCATION

–Indian Institute of Technology Jodhpur

2020 – 2024 (Expected)

Bachelor of Technology in Electrical Engineering

Jodhpur, India

KEY COURSES TAKEN

- * Pattern Recognition and Machine Learning, Data Structure and Algorithms, Probability, Statistics, and Stochastic Processes, Computer Architecture, Embedded Systems, Data Communication Networks, Deep Learning

TECHNICAL SKILLS

- ***Programming:** C/C++, Python, JavaScript, SQL
- ***Tools & OS:** Git, Jupyter Notebook, Google Colab, Linux, Windows
- ***Libraries/Frameworks:** PyTorch, TensorFlow, Numpy, Pandas, Scikit-Learn, NLTK, OpenCV
- ***Miscellaneous:** MATLAB, Arduino, Verilog, Digital Design, ARM/MIPS Assembly, GPIO, Signal Processing

ACHIEVEMENTS

- *Shortlisted for the Level-2 in iS3:iDeathon on SustainableSmart Systems by ACM Student Chapter
- *Ranked Among the top 0.7 percentile of 1.13 Million Applicants in JEE-Mains 2020
- *Secured All India Rank 5647 in JEE ADVANCED 2020