Saurav Yadav

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Education

B.E. in Computer Science Engineering (2021-25)
Manipal University, Jaipur (6.95 /10)

Valley View School, Jamshedpur
Qualified AISSCE (12) with 75.5% **(2021)**
Qualified AISSCE (10) with 75% **(2019)**

Technical Skills

Languages: Python, C, Java
Database: MySQL
Frameworks/Library: Flask
WebDev: HTML, CSS(Frontend)
Technology: Machine learning

Internship Experience

Data Scientist, *Tata Steel (Jamshedpur)* **June 2024 - Present**

- Performed **Exploratory Data Analysis(EDA)** on the Sinter Plant Stack Emission Dataset to find **correlations of different parameters to output** using data cleaning, data transformation, outlier treatment.
- Working on **prediction model** using **regression** process through studying different model such as **ARIMA**, **SARIMAX**, **LSTM** and other concepts. (ongoing)
- It is a implementation of 14 parameters with a wide data variation to predict output.

Project's

Autonomous Vehicle Using Road Sign Recognition **Jan 2024 - May 2024**

- Developed a **Convolutional Neural Network (CNN)** Model using **Preprocessing Pipeline** for image classification.
- (CNN) model adopts the **LeNet architecture.**
- Done advanced image processing techniques, including RGB to grayscale conversion, histogram equalization, and normalization,
- Read multiple research papers, focusing on sign detection, sign relevance, and text recognition.
- On research I found large dataset and fine-tuning a pre-trained CNN model can significantly improve traffic sign classification performance.
- A traffic sign classification system using the **GTSRB dataset** achieved a **99.77% accuracy rate**. The system was able to classify various traffic signs in real-world scenarios
- **Technologies:** Machine Learning

Full Stack Developer, E-Commerce Website Aug 2023 – Dec 2023

- Developed a website with a back end for the E-Commerce as a college project.
- Developed a front-end where there are 3 types of users such as Buyer, seller, server. With different functionality such as buying, selling, adding or removal of product from database.
- Backend was managed using flask and MySQL.
- **Technologies**: HTML,CSS, JavaScript, Flask, MySQL

IRIS Flower Classification **10 Feb 2022 - 10 Jul 2022**

- Performed EDA and used K-Nearest Neighbors (KNN) as classification model for 150 sample datasets.
- **Key Skills**: Machine Learning & k-Nearest Neighbours Algorithm

Positions of Responsibility

- **Captain And Vice-Captain School Sports House (2017-19) :** Lead our house for 2 consecutive years in sports.
- **Head of logistics, Onieros:** Lead a group of 20 people for logistics of college main cultural fest.