

# Mohan Krishna Gupta

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## EDUCATION

### Moradabad Institute of Technology

Uttar Pradesh, India

B.Tech, Computer Science & Engineering (G.P.A: 8.46/10)

2019 - 2023

- Coursework: Deep Learning, Machine Learning Techniques, Data Structures and Algorithms

## EXPERIENCE

### AI Developer Intern

Remote, India

Neolen Technologies

Oct, 2022 - Oct, 2022

- Exhibited a working knowledge of **CNN Architectures** and **GANs** to figure out the best approach for the project.
- Conducted the extraction of data and also processed the data to make it ready to use for training the model.
- Collaborated with team of experienced analysts and developers to implement the solution for the project.

## PROJECTS

### Driving Scene Segmentation

[Github](#)

- Performed **Image Segmentation** on the unconstrained environment of Indian roads by using the **IDD** dataset.
- Implemented the **U-Net** model with slight modifications and trained the model for 100 epochs with Jaccard Loss.
- Developed the UI using **Streamlit**. On inference, the model achieved a **Dice Score of 80.04%**.

### Natural Gas Price Prediction

[Github](#)

- Predicted the **Natural Gas Price from 2021 to 2026**, while leading a team in the Grand Final of SIH.
- Utilised 3 models for this **Exponential Smoothing, ARIMA and LSTM**.
- Achieved **Root Mean Squared Error of 0.45** with the ensemble of LSTM and Exponential Smoothing.

### Exploratory Data Analysis

[Github](#)

- Applied Exploratory Data Analysis on datasets such as **Spotify Song Popularity, MS Dhoni's ODI Batting Career**, to figure out interesting facts about them.
- Extracted the data for Spotify Song Popularity using the **Spotify API**.
- For these tasks, I have used Python's Data Visualization Libraries: **Plotly, Matplotlib and Seaborn**.

## SKILLS

**Programming Languages:** Python, C++, SQL

**Tools and Databases:** Jupyter Notebook, PyCharm, Vs Code, Docker, MySQL

**Technical Knowledge:** Machine Learning (*Linear Regression, Logistic Regression, Decision Trees, Naive-Bayes, SVM, Ensemble Methods, Clustering Algorithms, Dimensionality Reduction*), Time Series Analysis, Deep Learning, Association Rule Learning, Collaborative Filtering.

**Python Libraries:** Scikit-Learn, PyTorch, Tensorflow, Keras, NLTK, Gensim, FastAPI, Flask, XGBoost, CatBoost, statsmodel, Pandas, Numpy, Matplotlib, Seaborn, Plotly, Plotly's Dash, Beautiful soup.

## ACHIEVEMENTS AND ACTIVITIES

- **Finalist** of National Level Hackathon **SIH 2022**.
- Achieved **AIR 322** in TCS Codevita 2022 Season 10 Round 1.
- I write blogs related to Python and Statistics on [Medium](#) with **2K+ views**.

## TRAININGS AND CERTIFICATIONS

- **Deep Learning Specialization** by [DeepLearning.ai \(Coursera\)](#).
- **NLP Specialization** by [DeepLearning.ai \(Coursera\)](#).