

# Mohan Krishna Gupta

Moradabad, Uttar Pradesh, India | [LinkedIn](#) | +91 7017191926 | mohankrishnagupta@gmail.com | [Github](#) | [Website](#)

## 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%**.

### Estimating Delivery Time

[Github](#)

- Developed **Regression Model** to predict the time taken to deliver the order, based on the parameters such as restaurant location, delivery location, weather and the likes.
- Applied feature engineering, feature encoding and feature selection. Hypertuned **XGBoost** and **CatBoost** using optuna.
- Assessed these models using R2 Score, RMSE, Residual Analysis and Homoscedestic test. On Inference, got **R2 Score of 83.51% and 3.811 RMSE value** with combination of XGBoost and CatBoost.

### 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**, the data consisted of various features about the tracks such as energy, tempo, valence, etc.
- MS Dhoni's data consisted of parameters such as grounds he played on, opponent teams he played against, runs he scored.

## 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 \(Coursera\)](#).