

# Prateek Mehra

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## EDUCATION

- **Motilal Nehru National Institute of Technology (MNNIT Allahabad)**  
*Bachelor of Technology ; CPI: 8.07*

Prayagraj, India  
July 2018 - June 2022

## SKILLS

- Machine Learning: Deep Learning, Computer Vision, Time Series Forecasting, Clustering
- Frameworks: Tensorflow, Pytorch, Scikit-Learn, OpenCV
- Languages: Python, C++, Go, SQL
- Data Analysis: NumPy, Pandas, Matplotlib
- DevOps: Kubernetes, Docker, Gitlab CI, Grafana, Linux, Conda
- Ad-hoc: Virtual Machines, Kibana, Elasticsearch
- Cloud: AWS, GCP

## EXPERIENCE

- **Eatclub Brands (Formerly Box8), Bengaluru**  
*Data Scientist*

Bengaluru, India  
June 2022 - Present

- **Computer Vision (Edge):** Developed a low-cost attendance system involving anomaly detection using computer vision for 250+ outlets across India, saving \$20k in operational cost.
- **Computer Vision (Cloud):** Developed, deployed and monitored 8 CNN based Object Detection, Image Classification and Instance Segmentation pipelines using Apache Airflow and Kibana, which process 40k images per day and flag critical business issues with 95% accuracy, bringing down manual audit time to 1/4th of original.
- **Time series forecasting:** Used Prophet to predict the usage of critical resources in the Ops and Cart microservices, leading to a 5% cost reduction and lesser downtime durations. Performed EDA, data preprocessing and cross validation to bring down the Peak MAPE below 10%.
- **Clustering:** Applied DBSCAN on address embeddings encoded by RoBERTa Tokenizer for the creation of PoI Polygons, leading to a reduction in our last mile delivery time and associated fuel cost.
- **ML Lifecycle Experience:** Involved end-to-end from data wrangling to labelling, model training, deployment, metric evaluation, monitoring and iterative enhancement.
- **Projects:** Predictive Application Scaling • PoI Mining via Address Embeddings • Human grooming detection • Seven segment weight detection • Kitchen order ticket detection • Burnt pizza detection • Ingredient detection • Device detection • Number plate recognition • Camera Inspection

- **Glabber Technologies, Pune**

Remote

- *Software Engineering Intern*

March 2021 - May 2021

- **BOM Service:** Created, tested and deployed RESTful APIs built around the controller-service-repository architecture for the BOM Service involving graph traversals.
- **Query Design:** Designed cypher queries for the service on neo4j and unit tested them post integration with the code base.

## PROJECTS

- **Car Price Prediction**

- *[Github Link]*

Nov 2021

- **Summary:** Created a car price predictor web app with Flask backend. RandomForestRegressor was applied to the CarDekho dataset from Kaggle to train the model.
- **Methodology:** Post feature engineering and EDA, cross validation was performed using RandomizedSearchCV to select the best hyperparameters.

## ACHIEVEMENTS/RESPONSIBILITIES

- Team rank 19 and 26 in ICPC 2021 Asia Kanpur and Asia Gwalior-Pune programming contest respectively.
- Qualified to Facebook Hacker Cup 2021 Round 2.
- Rated top 6% globally on Leetcode. [Link]
- Mentored 2 Junior ML Engineers in the data-tech team for an year.
- CodeWars (competitive programming) team event winner at MNNIT Allahabad.
- Winner - Fresher's Quiz, MNNIT Allahabad.