

Ankit Kumar

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KEY SKILLS

- **Languages:** Python, R(Basic)
- **Statistical Model:** Descriptive stats, Sampling, Probability, Hypothesis Testing, Normal Distribution
- **Machine Learning:** Regressions, Tree Based Algorithms, KNN, Clustering, SVM, RF, Tensorflowlite
- **Deep Learning:** Neural Network, CNN, RNN, Computer Vision, Image & Text Classification, NLP
- **Frameworks:** Tensorflow
- **Web Technologies:** HTML, CSS, Django
- **Databases:** MySQL, SQL Server, MongoDB
- **Tools:** Git, PowerBI, Tableau
- **IDEs:** VS Code, Jupyter Notebook, Kaggle Notebook

EXPERIENCE

Software Engineer | PT Communication System Pvt. Ltd.

April 2023 – Present

Project:- Real-Time Monitoring System For Locomotive Pilots

- **Developed** a **Real-time monitoring system** designed to **Enhance Locomotive safety** by continuously detecting the **alertness** and **behavior** of the pilot, with the potential to **reduce train accidents by 30%-40%** through proactive safety measures.
- Capable of identifying signs of **drowsiness** and unsafe behaviors like **Phone usage**, **wearing headphones**, **yawning** and **smoking** alerting the operator or authorities to **prevent potential accidents**.
- **Utilized Tensorflow Lite SSD MobileNet V2** for model development and **trained fine-tuning**.
- **Deployed** the trained model on a **Toradex module** and configured it to send **real-time alerts to a specified IP address** when **unsafe** behaviors are detected.

Project:- Journey Creation Tool

- **Developed** a Python-based tool that **creates** journeys for the **Train Information Management System** based on user input, which will be used in the **PIS system**, enhancing the passenger's **real-time journey** information experience by **80-90%**.
- **Store** all journeys and information in **SQLite** in table format. And join Relevant table to **interconnect the data**.

Data Science Intern | Learnbay Pvt. Ltd.

May 2021 – Feb 2023

- **Learned** and implemented various machine learning models, including **Regressions**, **Random forest** and Deep Learning architectures like **CNN**, **RNN**, **Image classification**.

PERSONAL PROJECTS & CERTIFICATION

DealWin Predictor for IT Consulting:

- Developed a **predictive model** with **80% accuracy** for deal win likelihood.
- Achieved a **10% boost in win rates** by prioritizing high-probability deals.
- Language & Frameworks: - Python, Machine Learning, Jupiter, Tensorflow, DNN

Image Based Face Recognition for vigilance purpose:

- Automatically take picture of the person from camera and match with already saved data and **produce** the information of that person, purpose was to create application which help to identify the person with camera.
- Language & Frameworks:- Python, machine learning, NoSQL, pandas, OpenCV, Jupiter, Scikit

EDUCATION

Babu Banarasi Das Northern India Institute of Technology, Lucknow

Bachelor of Technology,

- 70% (I- Div Hons)

June 2018