Imran Ishtiyak Ahmed

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PROFILE

An accomplished data science professional having **2.5+ yrs** of experience with a proven track record in end-to-end project execution, with expertise lies in developing robust **machine learning** and **deep learning pipelines**, conducting **predictive analysis**, building models, performing **data manipulation**, and deriving actionable insights from **complex datasets**.

PROFESSIONAL EXPERIENCE

04/2024 – present	**Analyst**	*Supreme Group pvt. Ltd.*
04/2023 – 04/2024	**Senior data analyst**	*findability sciences pvt. ltd.*
01/2022 – 04/2023	**Data analyst**	*findability sciences pvt. ltd.*
03/2021 – 05/2021	**Data science intern**	*Verzeo*

ROLES & RESPONSIBILITIES

Company : Findability Sciences pvt. ltd

Real time bidding solution :

- Spearheaded innovative advertising solution for Softbank, integrating cutting-edge **AI/ML** in real-time bidding.
- Led end-to-end development and maintenance of machine learning models, employing statistical analysis for strategic insights.
- Designed AI-based CPM algorithm, linking **Random Forest** win probability, click probability models, and **gradient Boosting** bid pricing model.
- Established Python simulation environment for rigorous testing, ensuring robustness and reliability.
- Demonstrated thorough data analysis to find relation between bid price patterns and other demographic information.

Achieved a remarkable 25% improvement in KPIs, particularly in CPM, compared to the existing non-AI model, and an outstanding16% lift in KPIs, particularly in CPC, compared to the previous model.

monthly Volume forecasting :

- Designed a robust **data preprocessing pipeline** to structure raw monthly forecast data, making it suitable for analysis and **model training**.
- Developed an end-to-end automated system for Daikin US to optimize monthly volume forecasting.
- Created an efficient historical database for storing and managing volume data, enabling retrospective analysis and **model evaluation**.
- Innovatively integrated external flags as additional features, enhancing the model's predictive power by considering seasonality, buying patterns, and market influences.
- Applied advanced statistical techniques to uncover relationships between external flags and product volumes, improving understanding ofdemand dynamics.
- Utilized state-of-the-art time series algorithms like **ARIMA, SARIMA, and Prophet** to capture complex temporal dependencies.
- Expanded the forecasting horizon to 24 months, providing Daikin with valuable insights into long-term demand trends and supporting strategic inventory management.

OCR PDF data extraction :

- Led a pivotal OCR initiative at **Obayashi Corporation Global Site**, extracting critical insights from vendor PDFs across multiple Japanese cities.
- Integrated **Azure OCR API** for image-based PDFs and utilized **PDFplumber** for text-based PDFs, showcasing proficiency in advanced AI technologies.
- Developed Python-based heuristics to achieve a flawless **extraction rate** for challenging OCR PDFs, demonstrating technical prowess.
- Provided accurate business intelligence, enabling the client's sales team to efficiently generate leads and drive substantial revenue growth.
- Meticulously decoded complex PDF structures, ensuring comprehensive information extraction and transforming raw data into actionable insights.

Company : Supreme Group Pvt. Lst.

Inventory forecasting & Analysis:

- Applied ARIMA and Prophet models for accurate inventory forecasting, ensuring optimized stock levels and minimal shortages.
- Conducted detailed waste production analysis, implementing cost-effective solutions to boost efficiency.
- Proficient in cost analysis within manufacturing, driving operational streamlining and bottom-line results.
- Played a key role in enhancing production processes, leading to increased efficiency and profitability.

Company : Verzeo pvt. ltd

Image processing using YOLO v4 :

- Developed an advanced Landmark Detection algorithm based on **YOLOv4**, renowned for real-time object detection capabilities.
- Integrated computer vision techniques to identify and locate landmarks within images, enhancing image analysis.
- Employed comprehensive **image augmentation**, including rotation, scaling, and flipping, to diversify the training dataset and improve model generalization.
- Utilized **image annotation** to label landmark regions for supervised learning, implementing **TensorFlow** and **Keras** for model development.
- Leveraged **OpenCV** for **image preprocessing**, applying techniques like resizing, normalization, and data augmentation.

SKILLS

Programming Languages & Tools : (Python, R, MySQL, Microsoft Excel, Tableau)
Libraries : (Pandas, Numpy, Sklearn, Tensorflow, Keras, Django, Flask, Matplotlib, Seaborn, Plotly, Pymysql, Streamlit, Dplyr, ggplot2)
Techniques : (Machine Learning (Regressions, Classifications, Ensemble, AutoML, Supervised, Unsupervised), Linear Regression, Logistic Regression, RandomForrest, Boosting techniques, , Prophet, Time series analysis Deep Learning (ANN, RNN, LSTM), NLP (RNN, BERT, OCR), Transfer Learning, EDA (Statistical Analysis, Hypothesis testing, Variable, Selection, Sampling))
Deployment & version control : (Docker, Jenkins, GitHub, Herokuu)

EDUCATION

2017 – 2020	**Bachelors of Engg.**	***University of Mumbai***	**8.77**
2014 – 2017	**Diploma in Engg.**	**MSBTE**	**85.64 %**
2013 – 2014	**SSC**	***MSBSHSE***	**89.40 %**