Analyst, Deloitte India

motilalmeher11@gmail.com

+918917431632

EDUCATION

M. Tech in Industrial and Management Engineering (CGPA 8.67, Rank 4/25)

IIT Kanpur (2018-20)

- Mr. & Mrs. S.N. Mittal Gold Medal for best all round performance in academics and extra-curricular, IIT Kanpur.
- **Student senate Y18** (2019-20) Vision: Better incorporation of the voice of the PG student in the Gymkhana.
- Awarded A* in Probability and Statistics (IME 602) for outstanding performance.

B. Tech in Mechanical Engineering (CGPA 8.45, Rank 2/80)

PMEC, Berhampur (2013-17)

- Awarded by Head of Department for **best all rounding performance**.
- Secured 99.01 percentile in GATE-2018(Mechanical) among 200000 students.

Class XII (CHSE, Odisha): 82.5% | Class X (BSE, Odisha): 87.16%

WORK EXPERINECE

ANALYST. STRATEGY ANALYTICS & COGNITIVE CONSULTING

Deloitte India (Sept 2020 - Present)

Customer inactivity prediction for prepaid users for one of the leading telecom firm | Python, ML Ops, GCP, Kubeflow, Gita lab Data Science:

- Develop a predictive model to identify prepaid subscribers at risk of becoming inactive to minimize customer churn.
- Analyze the subscribers to identify the potential segment and define observation and performance windows.
- Created exhaustive set of features using variables related to revenue, first and last usages, voice and data uses.
- Using information values selected the feature and build and tune different probabilistic classification model on them like logistic regression, random forest and xgboost model.
- Evaluate our model performance using Gain and Lift chart and set a threshold to define which users are worth targeting using out of time data.

ML Ops:

- Using ML Ops practice and tools to deploy, manage, and monitor ML models in production.
- Containerized the whole ml workflow (components of training and batch inference pipeline) with docker.
- Created robust **CI/CD pipeline** using **Gitalb** to rapidly explore new ideas around feature engineering, model architecture and pipeline by automatically containerizing, testing and deploying the pipeline components into **google container registry**.
- Using git to versioning the source code and google cloud store to versioning data, features, model object and different artifacts.
- Using GCP AI platform pipeline/Kubeflow orchestrate ML pipeline and automatically deploy the model.
- Using Kubeflow Pipelines standalone on a local Kubernetes cluster schedule the batch inference pipeline on premise.
- Automatically **monitor the model performance** comparing the predicted value with future ground truth and detect **data drift** and present the key metrices on dashboard.

Commodity price forecasting for one of the India's leading beverage alcohol firm | Python, GCP, Apache Beam

- Built an **Intelligent buying platform** to forecast the price index of commodity (broken rice) in order to determine the optimum procurement and inventory schedule.
- Identify relevant price impacting factors and plug the data in pre-defined reusable templates.
- Preprocess the data and build exhaustive set of features and forecast the independent variables using models like ARIMAX, UCM, Holt Winters method, Moving Average Method.
- Selected variables by considering different tree based variable Importance score and vif.
- Build the multivariate time series modellike **ARIMAX**, **UCM** to predict price index and evaluate model on **out of time data** using **Accuracy and MAPE**.
- Automated the data ingestion pipeline and schedule the monthly forecasting using GCP dataflow, cloud function, cloud scheduler
 and compute engine. Also sed GCP Bigquery tables for data warehouse and google data studio for dashboard creation.

INTERNSHIP

BUSINESS ANALYST

Mphasis Next-lab (May 2019 – July 2019)

Process Flow analyser (Convert Image of Process map to industry standard XML code using Image processing techniques) | Python

- Identify the Cross-functionalities (Leverage morphological operations with the creation of custom kernels).
- Localize and classify the symbols (Leverage contour properties and contour Hierarchy).
- Localize the arrows, identify the extreme end and classify them (Leverage contour properties), identify sequences of symbols (adjacency matrix to represent directed sequence among Nodes).
- Visualization of directed graph from adjacency matrix using NetworkX python package.
- Create and parse an BPMN 2.0 XML documents using xml.etree.cElementTree python packages.

COURSES AND TECHNICAL SKILLS

- Courses: Statistical modelling, Machine Learning, Probability and statistics, Statistical Inference, Operation research, Stochastics calculus, Econometrics, Time series analysis.
- Programming language: Python, R, SQL, Excel, Java
- Cloud and ML Ops tools/practices: GCP (AI Platform, Kubeflow pipeline, Dataflow, Bigquery, Cloud build, Cloud function), Gita Lab CI/CD pipeline, Docker, Containerization, Version control, Kubeflow pipeline

EXTRACURRICULAR ACHIEVEMENTS

- Finished First in High jump at school level (2004, 05, 06, 07) and in zonal level (05, 06, 07), JOSH-19(intra IITK).
- IITK Hall8 Cricket: Enthusia 2k18 winner, Josh 2018 runner up and Josh 2019 winner.
- Completed Pin Parvati trek (Altitude 17,500 Ft), Sandakphu trek (Altitude 12,000 Ft).
- Finalist in Flipkart Grid Machine Learning quiz, IITK.
- Finalist in Analytics Case Study Competition & Symposium event during Prabandhan' 18 IIT KANPUR.