Harsh Kumar

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SKILLS

Languages: Python, C, Go

ML Libraries: Pandas, Numpy, scikit-learn, XgBoost, fbprophet, TBATS, statsmodels, SHAP, NLTK, spaCy, PyTorch, Keras,

TensorFlow, Transformers

Data Technologies: PostgresSQL, MySQL, Snowflake, MongoDB, PySpark, Polars Cloud Technologies: AWS Sagemaker, S3, EC2, Step Funtions, Lambda Functions Development Tools: Git, Docker, Kubernetes, Jenkins, Github Actions, Bash, PowerShell

Others: HTML/CSS, Jira, Confluence, LATEX, Markdown

WORK EXPERIENCE

DATA SCIENTIST | ZESTMONEY

Bangaluru, KA, IN | 2022 - Current

Volume projection of calls, emails and chats for workforce management

- Designed a statistical time series using that reduced error in the daily call volume prediction from an average of 40% to 15%.
- This resulted in decrease of call disconnect rate during peak hours from above 50% to 20%.
- Iterations included algorithms like ARIMA, SARIMA, fbprophet, and TBATS.
- Coordinated with the customer relations team to optimize the employee work hour allotment resulting in increased customer satisfaction rate.

• Affordability Estimation from Cibil data

- Performed data cleaning and segmentation on the CIBIL data of a large segment of the population to get a better estimate of EMI obligation for our customers.
- Performed extensive market research to improve the data quality.
- Improved the EMI prediction of Gold Loans by 10%.

· Fraud likelihood estimation to reduce credit risk

- Experimented with over 2000 features from 8 different data sources to produce a new fraud detection model.
- Improved the previous performance by approximately 20%.
- Created a new segmentation of customers based on online vs instore onboarding.
- Created a service API aggregating 8 different data sources with a latency of 200-400ms.
- Introduced SHAP feature importance for model assessment to the data science and risk analysis teams.

Model Monitoring

- Helped create the model monitoring framework for all the deployed model at Zestmoney.
- Produced data visualization to improve visibility of model performance.

Collections Models

- Took ownership of multiple models used to optimize collections. Created detailed workflows to manage loan collection strategies.
- Used the model monitoring data to proactively improve the model performance.

AutoML

- Helped in building of an internal ML platform for automatic modelling of internal financial data.
- Helped build the ELT pipeline in Polars for feature building which improved the latency by 40%.

TEACHING ASSISTANT (TA) | UNIVERSITY OF MISSOURI-COLUMBIA

Columbia, MO, US | Aug 2018 - Dec 2019

- Taught problem solving skills to pre-calculus and calculus I students.
- Performed one-on-one mentoring with students during office hours.

FDUCATION

B.S. in Mathematics and Scientific computing
INDIAN INSTITUTE OF TECHNOLOGY KANPUR (IIT KANPUR)
M.S. in Mathematics and Scientific computing
INDIAN INSTITUTE OF TECHNOLOGY KANPUR (IIT KANPUR)

Kanpur, India | Jul 2012 — Jun 2016

GPA 8.4

Kanpur, India | Jul 2016 — Jun 2017

GPA 9.1