Somesh Kumar

New Delhi

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Work Experience

EXL Service   **Sep 2019 – Present**
Consultant II, Lead Assistant Manager   *Gurugram, Haryana*

Customer Matching Framework | Leading US Credit Card Company | *Hive, Python, Postman*   **May 2021 – Present**
- The framework creates linkages between customer/business entities to uniquely identify the end user and their portfolio
- Revamped existing framework to repair **customer linkages using demographics matching** and business intelligence
- Rendered framework **sensitive to data quality, mismatching genders and suppression of redundant data**
- Delivered 8% incremental accuracy, 70% higher computation efficiency and resolved 90% of recently raised linkage issues

Anomaly Detection | Capability Development | *Python, Hive*   **June 2021 – Present**
- Modeled identification of **junk/default values and logical irregularities** in demographics data using Isolation Forest
- Generated a modular ISF model using oversampling, grid search and demographic parameterization to detect anomalies
- Used frequency based methods to detect default values, designed baseline model to calculate model performance metrics
- The model identified anomalous demographics with an **average precision of 81% and a recall of 79%**

Customer Metadata-Base Design | Leading US Credit Card Company | *Hive, Couchbase*   **Feb 2020 – May 2021**
- Designed a self-sustaining architecture for automatic **real time data updates and account setup**
- Identified principal data-sources for **over 190M accounts in 25+ global markets and 20+ system of records**
- Framed arbitration structure for demographic data-sources based on coverage, quality and availability of peripheral data
- Overlooked execution and collaboration for production release and performed due diligence through UATs and PIVs
- **Optimized inquiry time and refresh rate, resolved default values, truncations and format inconsistencies**

Spend Prediction Model | Leading US Credit Card Company | *Python, Hive*   **Sep 2019 – Feb 2020**
- Developed model for **predicting spends for Direct Mail Campaign**, using gradient boosting method
- Theorized and coded neighborhood, risk, spends and response variables for the prospect base population
- Performed **hyper-parameter tuning, scoring, validation and quality checks** based on model performance metrics
- Formalized model documentation and ensured reconciliation of predictions with production teams

Education

Indian Institute of Technology Kanpur   **Jul 2014 – Sep 2019**
B.Tech-M.Tech Dual Degree in Mechanical Engineering   *Kanpur*

Technical Skills

Languages: SQL, Hive, Python, HTML/CSS, C, C++, Bootstrap, JavaScript
Software Tools: Excel, Hive Terminal, Putty, Win-SCP, Postman, Tableau, Matlab
Techniques and Algorithms: Data Analysis, ML Algorithms(Decision Trees, SVM, Isolation Forest)

Relevant Coursework

- Machine Learning
- Data Analysis with Excel
- Web Development
- Linear Algebra
- Numerical Methods
- Data Structures
- Robot Motion Planning
- Philosophical Aesthetics

Awards and Recognitions

- **Q1-2020** EXL Shinning Superstar Award (new joiner) for developing data quality framework for client
- **4th Sprint-2020** PI Planning Recognition by client for Customer Metadata-Base Design
- **5th Sprint-2021** PI Planning Recognition by client for Matching Framework Remediation