# SOMESH KUMAR

New Delhi

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## Work Experience

**EXL Service**　　　　　　　　　　　　　　　　　　　　　　　　　　**Sep 2019 – Present**
*Consultant II(Business Analyst), Lead Assistant Manager*　　　　　　　　　　　　　*Gurugram, Haryana*

**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 190M accounts in 25+ global markets, 20+ system of records across business units
- 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 in the data

**Anomaly Detection** | Capability Development | *Python, Hive*　　　　　　　　**June 2021 – Present**
- Modelled 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 Matching Framework** | Leading US Credit Card Company | *Hive, Python, Postman*　　**May 2021 – Present**
- Revamped existing framework to repair customer linkages using demographics data matching and business intelligence
- Rendered the framework sensitive to data quality, mismatching genders and suppression of redundant data for matching
- Delivered 8% incremental accuracy, 70% higher computation efficiency and resolved 90% of the raised linkage issues in the month of release

**Spend Prediction Model** | Leading US Credit Card Company | *Python, Hive*　　　**Sept 2019 – Feb 2020**
- Developed model for predicting spends using inbuilt gradient boosting method implementation
- Prepared neighborhood, risk, spends and response variables for the base population
- Performed hyper-parameter tuning, scoring, validations 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**: Python, SQL, Hive, HTML/CSS, C, C++, JavaScript
**Software Tools**: Excel, Tableau, Hive Terminal, Putty, Win-SCP, Matlab, Postman
**Techniques and Algorithms**: Data Analysis, ML Algorithms(Decision Trees, SVM, Isolation Forest), Website Design

## 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