

FAUSTO LOPEZ

www.FaustoLopez.com | (646) 639-3360 | FaustoLopez110@gmail.com

SUMMARY

- 7+ years as a Data Analyst and Business Analyst with solid understanding of Data Modeling, Data Mapping, Data Profiling of Data Sources, Data Engineering, and a strong understanding of ETL techniques.
- Knowledge in data mapping, data manipulation, data analysis, data cleansing, data aggregation, data verification, and data validation.
- Analyzed terabyte-size data sets and generated reports after writing complex queries and scripts in SQL, SQL Server Management Studio, R, and Python.
- Experience developing and designing dashboards for supporting data analytics and data visualization for executives using Tableau and R-Shiny.
- Experience creating schema & design for, and management of, Postgres and ClickHouse databases.
- Experience building apps and dashboards using R-Shiny for public and external use.
- Experience using data analysis and data cleansing techniques in Excel spreadsheets, including: creating calculated fields, pivot tables, lookups, functions, formulas, graphs, and charts.
- Developed and presented various predictive models aimed at predicting behavior of individuals and industries. Modeling experience includes (but not limited to): linear regression, logistic regression, K-means Clustering, K-Nearest Neighbors.
- Excellent written and verbal communication skills and the ability to translate technical concepts into business language and business language into technical requirements.

SKILLS & TOOLS

R, Python, SQL, SQL Server Management Studio (SSMS), QGIS, ClickHouse, Postgres, Spark, Tableau

WORK EXPERIENCE

Taxi & Limousine Commission, City of New York

Director of Data Engineering & Analytics, Policy & External Affairs Department

New York, NY

September 2019 – Present

- Design and build schema and stored procedures for new SQL Server analytics database.
- Script Python, R and SQL queries for data exploration, data validation and ETL procedures.
- Develop data visualization plan coordinating analysts to build SSMS reports increasing data access across agency.
- Collaborate with various business users to translate business requirements into reports and actionable insights.
- Review and develop core data documentation for internal clients and leadership.

Taxi & Limousine Commission, City of New York

Data & Analytics Manager, Policy & External Affairs Department

New York, NY

July 2016 – August 2019

- Defined KPIs and automated Python, R and SQL scripts to produce internal and public-facing metrics.
- Designed schema and managed Postgres and ClickHouse databases.
- Implemented parallelization in R and SQL scripting jobs that lead to a 400% increase in reporting speeds.
- Prototyped and built a driver income calculator which is utilized by over 180,000 taxi drivers in New York City.
- Built and released an R-Shiny-based public dashboard, the TLC Data Hub, which showcases taxi KPIs and trends.
- Spearheaded landmark driver income study, which led to the first national vehicle cap on ridesharing companies, as well as the first national requirements on minimum driver pay for over 180,000 drivers.
- Applied regression and random forest models to predict taxi volume and k-means clustering to improve 311 complaint categories for taxis.

Urban Upbound
Data & Evaluation Manager

Long Island City, NY
June 2015 - June 2016

- Oversaw and managed six databases to track outcomes and reporting to assist low-income New Yorkers in gaining access to banking services.
- Developed evaluation protocols and analytical tools for testing program models.
- Aided with studies on financial stress as a predictor of counseling outcomes.
- Provided quantitative and qualitative assistance for the Healthy Aging Study, a qualitative report recommending resource upgrades for senior citizens in Far Rockaway.

Urban Upbound
Monitoring & Evaluation Assistant

Long Island City, NY
July 2014 - May 2015

- Designed and administered surveys on financial counseling outcomes.
- Developed evaluation protocols for testing efficacy of interventions for all programs.

EDUCATION

Macaulay Honors College at CUNY-Hunter
Master of Science: Applied Social Research and Statistics

New York, NY
May 2014

Macaulay Honors College at CUNY-Hunter
Bachelor of Arts: Sociology

New York, NY
May 2013

PUBLICATIONS

- An Earnings Standard for New York City's App-Based Drivers: Economic Analysis and Policy Assessment, *July 2018*.
- Healthy Aging in Far Rockaway: Findings from the Urban Upbound Healthy Aging Initiative, *April 2015*.
- Hybrid Strategies: Allocating Involvement in the Digital Age, *Society for the Study of Symbolic Interaction*, *June 2015*.