Gaurang Mehra

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**SKILLS**

* Python
* SQL
* Snowflake
* TensorFlow
* Scikit-Learn
* Keras/Pytorch
* Tableau
* Power BI
* Gradient Boosted Trees
* Ensemble methods
* Deep Learning

**WORK EXPERIENCE**

**Vistra Energy (TXU),** Dallas, Texas

**Sr. Data Scientist (Vistra Energy)** Apr 2023-Present

*Vistra Energy is a leading integrated energy company with TXU Energy being a leading Electric Retail brand.*

* Built an ML hazard model using gradient boosted trees to predict the risk of customer churn over the customer's lifetime (survival curve and hazard estimation)
* Developed the ETL pipeline and put the customer survival model into production to generate product-specific scenarios for the Intelligent Offer Engine, increasing CM by 2% by providing superior product-customer fit.
* Implemented the Intelligent Offer Engine using a combination of Modin and parallel processing in Iguazio.
* Developed a 60-month customer-level forecast model for multiple brands. The forecast model uses ML models for predicting churn and transaction type and is used to set the Long Range Plan (LRP)
* Led the conversion of critical models from SAS to Python
* Implemented GitLab code repositories and version control for all projects, facilitating CI/CD

**Vistra Energy (TXU),** Dallas, Texas

**Retention Analytics Lead (TXU Energy)** Mar 2019- Apr 2023

*Vistra Energy is a leading integrated energy company with TXU Energy being a leading Electric Retail brand.*

* Developed a testing agenda and A/B tests for term expiration customers, generating cost savings of $700K and increasing margins from $27/MWh to $32/MWh
* Managed pricing for the Adjustable Month-to-Month portfolio. Used an ML algorithm (K-means) to segment customers
* Lead the valuation for a key acquisition portfolio using statistical methods with Python as the engine and excel as the front end.

**Essilor of America,** Dallas, Texas

**Project Manager Data Analytics (Nassau Vision Group)** Jan 2016–Mar 2019

*Nassau Vision Group is a subsidiary of Essilor involved in distributing contact lenses to more than 10,000 Independent Eye doctor locations across the US*

* Developed a supply chain analytics dashboard in Spotfire for all Nassau Vision Group orders, accounting for pick-up times, ship methods, and SLAs, allowing for more dynamic adjustment of stock levels and boosting fill rates to 98%
* Automated the process of targeting promotions (previously a manual process) to customers, increasing the utilization of existing promotions by 5%
* Built the reporting for the All About Vision acquisition in Tableau to better track impressions, clicks and match them to contract terms.

**EDUCATION**

[**Deep Learning in Python (datacamp)**](https://www.datacamp.com/statement-of-accomplishment/track/0c4dd2aa00b1e196aa0f837f462610bbf9971499?raw=1) **July 2023**

[**Data Scientist with Python track (datacamp)**](https://www.datacamp.com/statement-of-accomplishment/track/ac23b2016e13d45e2e14aab84253baeed48d8d23) **May 2023**

**SMU Cox School of business**

**M.B.A (Master of Business Administration) Class of 2013**

**Manipal Institute of Technology,** Manipal, India

**Bachelor of Engineering (BE) Electrical and Electronics Class of 2007**