# Abdullah Mujawar

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## EDUCATION

**Stevens Institute of Technology**  New Jersey, USA
Master of Science in Computer Science  August 2021 - May 2023
**Visvesvaraya Technological University**  India
Bachelor of Engineering in Computer Science  August 2014 - July 2018

## PROFESSIONAL EXPERIENCE

**New York Life Insurance Company**  Jersey City, NJ, USA
Data Scientist  January 2023 – December 2023

- Developed and deployed machine learning models to predict customer churn, increasing retention rates by 15%. Utilized logistic regression and random forests to identify key indicators of churn.
- Conducted data analysis and visualization using Python and R to uncover insights and support business decision-making. Presented findings to stakeholders to guide strategic initiatives.
- Built and maintained ETL pipelines to prepare and clean data for analysis and modeling. Automated data extraction, transformation, and loading processes to ensure data integrity and availability.
- Collaborated with cross-functional teams, including marketing, sales, and IT, to understand business needs and translate them into data-driven solutions. Provided actionable insights that influenced business strategies.
- Utilized natural language processing (NLP) techniques to analyze customer feedback and improve product offerings. Implemented sentiment analysis and topic modeling to gain a deeper understanding of customer sentiments.
- Worked extensively with advanced SQL and Hive for data extraction and transformation, ensuring efficient data processing and retrieval.
- Applied time series analysis to forecast future trends and inform strategic planning. Utilized ARIMA models and exponential smoothing techniques to enhance predictive accuracy.
- Developed a Gradient Boosting Machine (GBM) model to predict insurance claim risks. Analyzed historical claims data and identified key risk factors, leading to a 20% reduction in claim-related losses.
- Built regression models to forecast policy renewals. Implemented decision trees and random forests to identify factors influencing policy renewals, resulting in a 10% increase in renewal rates.
- Applied K-means clustering to segment customers based on demographic and behavioral data. Enhanced targeted marketing efforts and improved customer satisfaction by 15%.
- Developed a fraud detection model using random forests and anomaly detection techniques. Reduced false positives by 30% and identified fraudulent activities more accurately.

**NTT Data**  India
Data Scientist  November 2018 – July 2021

- Developed predictive models using machine learning algorithms such as GBM, decision trees, and random forests to forecast sales and optimize inventory levels.
- Implemented A/B testing frameworks to evaluate the impact of marketing campaigns and product changes. Analyzed test results to provide data-driven recommendations for optimizing marketing strategies.
- Created interactive dashboards and visualizations using Power BI and Tableau to communicate findings to stakeholders. Enabled real-time data monitoring and facilitated informed decision-making.
- Conducted time series analysis using ARIMA and LSTM models to predict future trends and inform strategic planning.
- Applied clustering techniques such as K-means to segment customers and tailor marketing strategies accordingly.
- Worked with Hadoop and other big data platforms to manage and process large datasets, ensuring efficient data handling and storage.
- Utilized Pandas and Scikit-Learn for data processing, feature engineering, and model building, ensuring robust and accurate predictive models.

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL
- **Tools & Technologies:** TensorFlow, Scikit-learn, Keras, NLTK, PyTorch, Hadoop
- **Databases:** MySQL, PostgreSQL, MongoDB, Hive
- **Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn