

# RAKESH CHOUDHURY

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## EDUCATION

**Northeastern University,**

*Master of Science in Information Systems*

September 2019-May2021

**Kalinga Institute of Industrial Technology,**

*Bachelor of Technology, Electronics and Telecommunication*

May 2011-May 2015

## TECHNICAL SKILLS

<b>Programming skills:</b>	SQL, R, Python, Java, CSS, JavaScript, Linux(Bash)
<b>Data Science Libraries:</b>	Numpy, Pandas, Tensorflow, Pytorch, Matplotlib, Plotly(DASH), Seaborn
<b>Business Intelligence tools:</b>	Tableau, Power BI, Salesforce (Einstein Analytics), Flourish
<b>Cloud:</b>	AWS (EC2, S3, RDS, Redshift), Heroku
<b>Tools:</b>	Jira, Microsoft office suite,Git, Alteryx (ETL), Talend (ETL), Snowflake, G-suite
<b>Databases:</b>	MicrosoftSQL, Mongo DB, SAP HANA, PostgreSQL, MySQL, Oracle
<b>Framework:</b>	Django, Flask, Streamlit
<b>Certifications:</b>	Google Analytics for Beginners[Link], Advanced Google Analytics[Link]

## WORK EXPERIENCE

**Serole Technologies, India- Data Analyst**

April 2018-December 2018

- Built classification models leveraging random forest model with **0.81 F1 score** to segregate customers on their likelihood to payback for the Insurance product.
- Developed **ETL** data pipelines running **SQL stored procedure** pulling 100 GB data into target data marts for quantitative analysis following audit procedure.
- Helped digital marketing team save on ad expenditure by approximately **\$5000** per each policy ad through **A/B testing** analysis on users data.
- Delivered **PowerBI** visualisation helping company make decisions to improve customer acquisition and retention, enhancing sales pipeline resulting in **100%** revenue increase.

**Accenture, India- Data Analyst**

November 2015-January 2018

- Initiated SQL Query automation script using python for replication to 10+ target data mart.
- Designed **ETL** jobs with slowly changing dimension(**SCD**) type 2 technique while loading **data lake** tables at **9x speed** for business reports on **Tableau**.
- Optimized database and Query performance by nearly 3x faster using **SQL indexing technique**.
- Won ace award for helping client save **\$160,000** per year for its highest paying customer.

## ACADEMIC PROJECTS

**IMDB Data Warehousing Project (Amazon S3, PowerBI, Data Model, Alteryx, Dimensional model, BigQuery)**

- Created Alteryx **ETL** performing data cleansing operations while loading 20 GB of data from **AWS S3** into **Oracle Data Warehouse**.
- Wrote ETL workflows integrating **facts with dimensions** into Oracle database saving upto 3GB of memory.
- Visualised data in **PowerBI** with interactive dashboard for 100+ attributes, measures and calculations of data and findings.

**Airport Database Management System (Tableau, RDBMS, Business Intelligence, AWS RDS, MSSQL,Talend)**

- Constructed **Talend** data pipeline to load dimensional model data into **MicrosoftSQL server** from **Amazon RDS** reducing memory consumption by 1.5 GB.
- Manipulated 4 GB of data using **SQL** query joins, functions, triggers, procedures, error handling, CTE and pivot table to create reports for business consumption.
- Integrated data from different source tables into **SQL views** to be consumed in **Tableau** dashboard with 15+ parameters to generate insights on Airport operations.

**Recommendation system A/B testing (Machine Learning, Python, Heroku, Streamlit, Numpy, Pandas, Matplotlib)**

- Utilized Tensorflow RBM (Restricted Boltzmann Machine) **machine learning** model for training **neural networks** feeding product ratings, historical behavior, Retail Channel as key parameters achieving an accuracy of 79.2%.
- Deployed **streamlit** application on **Heroku** for a recommendation system; placing products chronologically that engages users and helps in shooting sales upto **250%**.

**Brand Promotion on YouTube Channels (NLP, Logistic regression, k-means, Amazon EC2, Flask, Statistical Methods, Plotly)**

- Managed 4 GB dataset classifying YouTube Channels with popularity score on likes, dislikes, views via **scikit learn's k-means** and **logistic regression** model.
- Formulated trend metric with finance parameter, popularity classification points and **NLP's** sentiment score showing **225%** return on investment as part of brand influencing.
- Integrated python code on **Flask** web application and deployed on **AWS EC2** instance.