

Tikam Singh Walia

Data Science

CONTACTS

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-  [Blog](#) | [Github](#) | [ShinyApps](#)

Links

- [After Dafter in Python](#)
- [BAU Automated in R](#)
- [ShinyDashboard](#)

EDUCATION

PG Diploma (PGDM):
Big Data Technologies,
Center for Development of
Advanced Computing, Noida,
2016

**Computer Science
Engineering:**
Computer Science Engineer
2011-2015, NIET, Gautam Budh
Nagar G.Noida.

CERTIFICATIONS

Machine Learning :
[DeepLearning.AI](#)

Exploratory Data Analysis:
[Coursera](#)

Inferential Statistics:
[Coursera](#)

SUMMARY

Data science professional with 6+ years of experience in executing data-driven solutions. Experienced in statistical and machine learning models. Ability to handle vast volumes of data to deliver insights and implement action-oriented solutions to complex business problems. Proficient in Statistical modelling and machine learning algorithms.

SKILLS

- Machine Learning
- Python Programming
- Azure | Github | VSN
- R Programming
- Azure Synapse Analytics
- SQL
- PowerBI | Tableau
- Statistics
- Excel

WORK EXPERIENCE

Asst. Manager Marketing Analytics at Midland Credit Management

20/10/2022 – Present

Technical responsibilities:

- Successfully developed and deployed two machine learning models to optimize call center operations:
- A **behavioral clustering model using K-Means algorithm** to segment the inventory of accounts into 10 distinct deciles based on payment behavior and account characteristics.
- A **Right Party Contact (RPC) optimization model built on these deciles using XGBoost and ensemble algorithms**, resulting in significantly improved consumer contact rates and operational efficiency.
- Designed and delivered a comprehensive **master reporting framework (“Drift Management”)** leveraging **Power BI, Azure, Spark,SQL, and Python**, providing leadership with real-time, cross-functional operational insights.
- Developed a scalable Python-based data pipeline for FRB Reporting with dynamic file structures.
- Implemented data integrity checks, metadata extraction, and anomaly detection mechanisms to ensure data accuracy and reporting traceability. This automated **end-to-end ETL process for FRB files, includes validation, metadata logging, and bulk loading into SQL Server**.
- Automated multiple **business-as-usual (BAU) processes** via **Azure Synapse Analytics** and **Power BI**, streamlining reporting workflows and improving accuracy.
- Developed a **communication response rate analysis report**, identifying trends in call center operations based on **Location, Caller ID, and Communication Type**, enabling data-driven operational adjustments.

Data Scientist at a2zwebsolution

20/05/2021 – 19/10/2022

Technical responsibilities:

- Built an Internet of Things-driven fault detection system for HVAC Devices.
- Data pre-processing: Transformation, PCA, UMAP.
- Machine Learning model for classifying optimal configuration between the different segments of the HVAC system (Logistic Regression, Classification, SVM, etc.).
- Predictive maintenance and alerts based on real-time data from across devices.
- Analysis of power consumption on various devices for benchmark comparison to suggest retrofit/repair required by the device such as CT-Tower, Pumps, Chiller, AHUs, etc.
- Detailed and interactive visualization as and when required by site members.

Data Analyst at Orion Social

25/04/2019 – 05/05/2021

Technical responsibilities:

- Participated in requirements meetings and data mapping sessions to understand business needs.
- Data collection and Data Pre-processing.
- Exploratory data analysis of various govt schemes with interactive visualization.
- Conducted statistical analysis on samples from census data to provide a data-driven decision.
- Performed sentiment analysis in R on tweets in response to government schemes.
- Translated complex concepts and data into compelling visuals for media outreach.

Academic Project

Real-Time Sentiment Analysis on Twitter Data (PM N Modi vs CM AK Kejriwal)

Technology: R programming, Twitter API.

Description: Twitter Sentiment Analysis is the process of accessing tweets for a particular topic and predicting the sentiment of these tweets as positive, negative, or neutral with the help of different learning algorithms.

Sentiment Analysis Challenges

- Context and Polarity definition
- Subjectivity and Tone determination
- Irony and Sarcasm identification

Sentiment analysis is precious for businesses because it allows getting realistic feedback from your customers in an unbiased (or less biased) way. Done right, it can be a great value-added to your systems, apps, or web projects.