

# Abhishek Kumar Singh

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## SUMMARY

Data Scientist with 5+ Years of Experience in building machine learning models, statistical forecasting, Generative AI solutions and deploying scalable solutions using Python, R, and cloud platforms like Azure. Proven ability to derive actionable insights, optimize processes, and drive business impact through data-driven strategies.

## WORK EXPERIENCES

### Data Scientist, LatentView Analytics, Chennai, India

Oct 2021 - Jul 2023

- Designed and optimized a chatbot leveraging an **LLM**, hosted on Azure Functions, to convert natural language input into SQL queries for database retrieval. Integrated with Power Platform and **Power BI**, enhancing data accessibility by **25%**.
- Spearheaded the analysis of **telemetry data** to develop **XGBoost classification models** for predicting fan and battery failures in laptops, achieving accuracies of **88% and 82%**, respectively.
- Effectively **communicated** findings and recommendations through detailed reports and **interactive dashboards**, enhancing stakeholder understanding and driving **data-informed decisions**.
- Designed and implemented **statistical time series forecasting** models (ARIMA, SARIMA, Prophet, Theta) to predict website and app footfall with **94%** accuracy, visualizing these forecasts in a **Tableau** dashboard.
- Gathered, validated, and preprocessed data to develop **K-means clustering model**, identifying regions with similar customer behaviors. These insights were used to design targeted **marketing campaigns**, **optimizing resource allocation** and increasing user engagement by **10%**.
- Translated analysis results to business insights by analyzing survey data with **NLP-based topic modeling** techniques, calculating monthly Net Promoter Scores (NPS), and Identified key factors influencing NPS, enabling targeted interventions that improved customer satisfaction by **8%**.
- Automated data quality monitoring and extraction processes using **Hive** within the **Hadoop** ecosystem, enhancing data accuracy and integrity while saving approximately **one week of manual efforts**.

### Data Engineer, Cognizant Technology Solutions, Chennai, India

Apr 2019 - Sep 2021

- Developed and data mapping logics in **SQL** for data extraction and transformation, implementing a **CI/CD** pipeline to automate testing and deployment, ensuring compliance with set standards and secure data exchange.
- Reported KPIs and built an automated **ETL pipeline** to extract, transform, and load (ETL) over **1 BN+ records** into a cloud data warehouse using Informatica, ensuring data integrity and readiness for analysis.
- Collaborated with **cross-functional** teams worldwide and leveraged Jira for efficient work tracking and project management. This facilitated the design and implementation of a real-time data health monitoring system.

## EDUCATION

University at Buffalo, The State University of New York - Master's, Data Science - GPA: 3.93/4

Aug 2023 - Dec 2024

SRM IST, India - Bachelor's, Mechanical Engineering - GPA: 3.78/4

Aug 2014 - May 2018

## CERTIFICATION

Microsoft Azure Data Scientist Associate

Microsoft Power BI Data Analyst Associate

## PROJECTS

### Agentic RAG-based LLM model, [Link](#)

- Developed an **Agentic RAG**-based on a tabular database enabling user interaction for data queries, visualizations, and future predictions, achieving **95% query accuracy** using a synonym mapper.

### Built an end-to-end game recommendation system, [Link](#)

- Built an end-to-end game recommendation system using Azure with Steam API, ADF, ADLS, and Databricks, and deployed the web app via Docker and Azure Container, achieving **90% recommendation accuracy** (precision).

### A/B Testing for promotional in app notification, [Link](#)

- Designed and conducted an A/B test to evaluate the impact of in-app notifications on sales, achieving a **15% increase** in transaction rate and a **\$7 higher** average purchase value.

## SKILLS

**Programming Languages** : Python, SQL, R

**Machine Learning** : Deep Learning, Supervised and Unsupervised Machine Learning, Time series forecasting, A/B testing, Causal inference, NumPy, Pandas, Pyspark, PyTorch, Scikit-Learn

**Data Visualization** : Power BI, Tableau

**Cloud Computing** : Cloud Technology (Azure, AWS), Git, Docker