

Abhishek Kumar Singh

Data Scientist

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SUMMARY

Data Scientist with 5+ Years of Experience in building machine learning models, statistical forecasting, and deploying scalable data 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 a chatbot by fine-tuning a Large Language Model (LLM) for our specific task, converting natural language input into SQL queries in the background, retrieving data from the Azure Data Lake, and displaying it through Power BI.
- Gathered, extracted, and compiled data from various sources, enhancing data quality through cleaning and linking complex datasets with an 88.5% matching accuracy using Python's fuzzy matching library.
- 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 models, 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

ACADEMIC PROJECTS

Built a GPT-2 architecture from scratch,

- Pre-trained it on the complete works of Shakespeare using Python and PyTorch.

Developed an Agentic RAG-based LLM model,

- Enabled user interaction for data queries, visualizations, and future predictions.

Built an end-to-end game recommendation system,

- Used Azure with Steam API, ADF, ADLS, Databricks, and deployed the web app via Docker and Azure Container.

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

Data Engineering : Data pipeline development, ETL/ELT pipelines, PySpark, Distributed data processing

Data Visualization : Power BI, Tableau, Data Visualization

Cloud Computing : Cloud Technology (Azure, AWS), Git, Docker, CI/CD