

Vineet Kumar Agarwal

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SUMMARY

Curious by nature and driven by data. I am a skilled result-driven individual with a proven track record of excelling in diverse analytical roles, committed to driving business success and fostering collaborative environments. As a Data Analyst, I've honed my skills in SQL, Python, machine learning, and data visualisation. I'm eager to join an innovative team where I can grow, contribute to impactful projects, and drive data-powered solutions.

EDUCATION

Masters in Data and Knowledge Engineering

Otto Von Guericke University Magdeburg · Germany · 04/2024 – 04/2026 · 1.5 (CURRENT GPA)

Bachelor of Technology in Computer Science and Engineering

BML Munjal University · Gurgaon, India · 08/2017 – 05/2021 · 1.9

SKILLS

- **Tools:** Snowflake | Metabase | Tableau | PowerBI | Excel | DBT | Jira | Git | VSCode
- **Programming Languages:** Python (NumPy, Pandas, Matplotlib) | StreamLit | PyTorch | MYSQL/MS SQL | R | HTML & CSS | Java
- **Languages:** English CEFR C1 | German A2

EXPERIENCE

Data Analyst

Data Radian Technologies (Fortune Brands Innovations)

June 2022 – May 2024

- **Data Analysis:** Conducted detailed analysis to detect and resolve critical data quality issues to meet industry standards in Data Vault models. Performed rigorous QA testing on large-scale datasets between Azure Storage and Snowflake, boosting data reliability and integrity by over 95% for SAP Marketing Cloud.
- **Data Engineering:** Designed and implemented robust Snowflake data models and optimised database views for Demand Planning and Agent Performance, achieving a measurable 10% increase in forecasting accuracy. Collaborated with cross-functional teams to integrate new data sources, and streamlining data workflows to enhance overall system performance and data reliability.
- **Data Governance:** Implemented and monitored data governance frameworks, ensuring data quality standards, privacy compliance, and regulatory adherence in all data-driven initiatives.

Business Intelligence Analyst

Flex by Finaxar

August 2022 – October 2023

- **Data Analysis:** Created and maintained 30+ interactive detailed dashboards and reports in Metabase. Engaged with cross-functional (Operations, Sales, Finance) team to understand data requirements to develop solutions to meet business needs. Achieved 100% data accuracy in reporting through rigorous data cleansing and validation processes.
- **Data Engineering:** Managed the end-to-end migration of Metabase reports from legacy systems, reducing the system transition period by 33% in time-sensitive deadline.
- **Data Science:** Developed predictive models (classification, clustering) to drive business insights for clients likely to default in their loan payments.

Data Science Engineer

Smart Energy Water

July 2021 – May 2022, Noida, India

- **Data Analysis:** Developed multiple interactive Power BI and Tableau dashboards, improving client reporting efficiency while maintaining 95% data reliability through rigorous validation and cleansing. Some key contributions include Customer Journey Analytics and Leakage Detection.
- **Data Science:** Delivered a predictive Leakage Analytics Dashboard by applying time-series analysis techniques using Python to build predictive models for water leak detection, achieving a 50% improvement in early leak detection efficiency. Designed and implemented the Green Score Dashboard for Tata Power, increasing consumer awareness of energy efficiency by 10%, directly contributing to sustainability initiatives.

ACADEMIC PROJECTS

Simulation and Analysis of Shipment Trajectories

April 2025 – September 2025

- **Overview:** Developing a physics-based model in Python to predict shipment trajectories based on environmental data analysis of historical AIS datasets for ships operating in the Rheinhafen and Cuxhafen port regions. Leading the Frontend development with integration of model with Streamlit to visualise the ship simulation.
- **Relevant Skills:** Exploratory Data Analysis of Historical AIS and Weather Datasets, Frontend – Streamlit, Predictive Modeling.

GastroTrust: A Restaurant Review Authentication Platform

October 2024 – January 2025

- **Overview:** Built an AI powered web-based platform using Human Centered Artificial Intelligence (HCAI) principles to enhance restaurant review authenticity, integrating machine learning algorithms for sentiment analysis and review scoring. Led backend architecture development with Python, optimised models through hyper-parameter tuning, and implemented scalable real-time data processing.
- **Relevant Skills:** Machine Learning & Sentiment Analysis (DistilBERT, Gradient Boosting, Random Forest), UX/UI & XAI Design, Data Architecture(Firebase).