



Hritik Rai

Data Scientist

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Technical Experience

Almabetter January 2024 – Present

🔗 Data Scientist Trainee

- Conducted EDA on 1M+ records, improving data integrity by 22% and optimizing marketing strategies.
- Performed hypothesis testing and regression analysis, ranking in the top 1% in a competition.
- Built interactive dashboards in Power BI and Tableau, securing a top 5 leaderboard position.
- Deployed ML models, boosting predictive accuracy by 15% over the benchmark.
- Collaborated with a team of 4 to align data solutions with business goals and improve insights delivery.

Education

Woolf University January 2024 – Present

Masters in CS : Artificial Intelligence and Machine Learning

E&ICT IIT Guwahati – AlmaBetter January 2024 – Present

Advanced Certification in Full Stack Data Science

University of Jammu August 2019 – September 2022

CGPA : 7/10

🔗 Bachelor of Science

Academic Projects

Bike Sharing Demand Prediction November 2024

🔗 AlmaBetter Machine Learning Project

- Created a sophisticated predictive model using the Bike Sharing dataset to anticipate bike rental demand; results informed operational strategies, reducing bike shortages during peak hours by 40% and enhancing customer satisfaction.
- Performed data cleaning, EDA, hypothesis testing, and data preprocessing, enhancing model accuracy by 15% and identifying key factors influencing rental demand.
- Implemented machine learning models, delivering accurate predictions and actionable insights for effective planning and decision-making in bike-sharing services.

EDA, Feature Engineering, Data Pre-processing, Hypothesis testing, Model Implmentation

OYO Booking Analysis | PowerBI Dashboard August 2024

🔗 AlmaBetter Team Project

- Analyzed hotel booking datasets using Power BI, creating an interactive dashboard that improved efficiency by 25% in identifying insights and diagnosing root causes.
- Utilized Pandas in Google Colab for data cleaning and feature engineering, enhancing analysis accuracy by 22%, and applied DAX to create custom measures and calculated columns.
- Examined hotel performance metrics, including a 10% year-over-year growth in booking revenue, room type preferences, and guest stay trends, providing actionable insights into supply and demand across regions.

Python, Data Cleaning, Data Preprocessing, Pandas, PowerBI, PowerQuery, DAX

Amazon | Case Study July 2024

🔗 AlmaBetter Case Study

- Conducted in-depth research and analysis on Amazon platform functionalities, identifying real-world challenges and designing innovative schema structures and ER diagrams to support a scale of 2 million MAU.
- Applied SQL DDL concepts to implement efficient schemas, resolving critical platform issues and securing a top 5 position in a database design competition.
- Proposed scalable and cost-effective database solutions based on case study insights, achieving a 10% reduction in costs compared to industry benchmarks.

SQL, PgAdmin, Case Study, Schema Design, Database Management

Technical Skills

Expertise in Languages & Tools

Python – 4.0 | SQL – 4.6 | Excel – 4.2 | Power BI – 4.3 | Tableau – 4.1 | Model Building – 4.4

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Platform

Jupyter Notebook | Google Colab | PGAdmin

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Data Science Framework

Pandas | Numpy | Matplotlib | Seaborn | Beautifulsoup | Machine Learning Algorithms

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