

DEBARATI BOSE

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Profile Summary

Analytical and detail-oriented Data Analyst with experience in uncovering insights from complex datasets using **Power BI, Excel, Python, and SQL**. Skilled in **handling large datasets (500K+ records)** and transforming raw numbers into clear, compelling stories that drive business decisions. Adept at visualizing trends, automating workflows, and creating dashboards that deliver actionable insights for both technical and non-technical stakeholders. Passionate about making data meaningful for strategic growth.

Technical Skill

Languages: SQL, Python, R
Tools: Excel, Power BI, MySQL, Tableau
Skills: Data Preprocessing, Data Mining, Data Cleaning, Data Visualization, Statistical Analysis, Storytelling, Strategic Decision Making, Business Data Interpretation, Data Reporting, Analytical Thinking, Team Collaboration, Model Optimization.

Education

Bengal Institute of Business Studies - VU	2025
MBA in Business Analytics and Data Science	78%
Academy of Technology - WBUT	2021
B.Tech in Electrical Engineering	83%

Experience

Research Analyst Intern	Jun 2024 – Dec 2024
AI Workspace	Kolkata

- Automated data workflows using Python and scraping tools, **reducing manual processing time by 50%**. Cleaned and analyzed over **500K+ data points**, improving decision accuracy through Excel visualizations and strategic insights.
- Enhanced machine learning performance by annotation. Automated reporting with Python, streamlining workflows in real-time, delivering data-driven solutions and actionable dashboards using **9K+ sample data points**.

AI/ML Intern	Apr 2024 – May 2024
Intern pe	Kolkata, Remote

- Developed an **AI-powered predictive model** to forecast breast cancer outcomes, leveraging a dataset of over **12,000** patient records, achieving an **89% accuracy rate** in predictions. Engineered and fine-tuned the machine learning model by evaluating more than **25 parameters**, including patient demographics, medical history, and lifestyle factors, resulting in a **15% increase** in prediction accuracy.

Certifications

- Business Analytics Program & Machine Learning from IIT Kanpur (16/01/2024)
- Power BI from Forage (06/06/2023)
- SQL and Relational Databases from IBM (01/09/2023)
- Excel for Intermediate Level (30/03/2024)
- EY's Techathon (19/05/2024)

Projects

- Automated Airbnb Market Analysis using Power BI* ([View my Automated Airbnb Market Analysis Project on GitHub](#))
- Designed an interactive Power BI dashboard for global Airbnb listings of **2,051,980 data points** to analyze geographicaland pricing insights. Addressed data inconsistencies and missing values using DAX. Recommended focusing on **host reliability and region-based pricing** strategies to **maximize revenue**.
- Car Price Predictor (Machine Learning)* ([Explore the project](#))
- Built a **Machine Learning Model** to **predict car prices**, leveraging advanced algorithms and **processing over 10,000 car data** entries, which enhanced **predictive accuracy by 15% in price forecasting**.
- Dashboard on Automatic Loan Calculator (Excel)*
- Designed an **Automated Excel Dashboard** for **EMI calculations**, enabling users to instantly **view amortization schedules**, monthly payments, and interest breakdowns, **streamlining over 1,000 loan calculations** and improving financial decision-making.
- EDA on Global Atmospheric CO2 Emission Trends* ([View the full project](#))
- Conducted **Exploratory Data Analysis** on Global Atmospheric CO2 Emission Trends, **analyzing over 20,000 data points** and identifying **key patterns and insights** that contributed to **climate change forecasting** and a 12% improvement in predictive accuracy.

Achievements

- Excel Hackathon Winner*
- Secured 2nd place in an **Excel Hackathon** at Bengal Institute of Business Studies, showcasing expertise in **Data Analysis**.