

# 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** 2023 - Present

*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 geographical and 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**.