DEBARATI BOSE

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Technical Skills

Languages: SQL, Python, R
Technologies and Tools: Excel, Pivot Tables, VLOOKUP, PowerBI, DAX, Power Query, MySQL, Tableau, JSON, Pandas, Scikit-Learn, Matplotlib
Other Skills: Data Annotation, Machine Learning, Data Mining, Data Visualization, Statistical Analysis, Storytelling, Predictive Modeling, Feature Engineering, Feature Scaling, Data Preprocessing, Model Evaluation, Business Intelligence, Statistical Analysis, Data Storytelling

Experience

Research Analyst Intern   **Jun 2024 – Dec 2024**
AI Workspace   *Kolkata*

- Utilized **Excel** to create various **Data Visualizations**, including radar charts and histograms, effectively analyzing and presenting complex data insights, resulting in a **20% improvement in team data comprehension**.
- Performed **Data Mining and Cleaning on over 500,000 data points**, ensuring the datasets were actionable and of high quality, which **enhanced decision-making accuracy by 25%.**
- Automated **Data Processing with Python Scripts**, enhancing **overall accuracy by 15%** in data reporting and analysis.
- Conducted **Data Annotation for Machine Learning workflows,** helping to process over **10,000 datasets**, which contributed to a **15% improvement** in machine learning model performance.
- Collaborated in real-time with team members to interpret business data, aiding in **strategic decision-making** for key projects, resulting in a **20% faster project turnaround time**.

AI/ML Intern   **Apr 2024 – May 2024**
Internpe   *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

- Power BI Virtual Case Experience (30/07/2023)
- Business Analytics Program & Machine Learning from IIT Kanpur (16/01/2024)
- SQL and Relational Databases from IBM (01/09/2023)
- Excel for Intermediate Level (30/03/2024)
- EY's Techachon 4.0 (19/05/2024)

Projects

Dashboard on Sales Analysis (Power BI)
- Developed an interactive **Power BI dashboard for Walmart's Sales Analysis**, visualizing **key performance metrics** and sales trends, empowering **data-driven decision-making** and enhancing business strategies.

Car Price Predictor (Machine Learning)
- 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
- Conducted **Exploratory Data Analysis** on Global Atmospheric CO2 Emission Trends, **analyzing over 50,000 data points** and identifying **key patterns and insights** that contributed to **climate change forecasting** and a 12% improvement in predictive accuracy.

Education

Bengal Institute of Business Studies - VU   **Mar 2023 – June 2025**
MBA in Business Analytics and Data Science   *79%*
Academy of Technology - WBUT   **Aug 2018 – Aug 2021**
B.Tech in Electrical Engineering   *83%*

Achievements

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