Aritra Sadhukhan

**Data Analyst**

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# OBJECTIVE

* **Highly motivated and detail-oriented aspiring Data Analyst** with a solid academic background in Computer Science and hands-on experience in Power BI, SQL, Excel, and Python (NumPy, Pandas). Recently completed B.Tech from Guru Nanak Institute of Technology. Skilled in data cleaning, visualization, and statistical analysis, with a strong passion for turning raw data into actionable insights. Seeking an entry-level role to apply analytical skills in a data-driven organization and contribute to impactful, real-world projects..

# SKILLS

* **Programming Languages**: SQL, Python
* **Python Packages:** NumPy, Pandas, Matplotlib, Seaborn
* **Databases**: MySQL, PostgreSQL, MS SQL Server
* **Tools**: Power BI, Excel (Advanced Formulas, Pivot Tables, Power Query), Jupyter Notebook, VS Code

# Projects

## Bank Loan Analysis([Project Link](https://github.com/AritraSadhukhan/BANK-LOAN-ANALYSIS))

* Conducted in-depth analysis of loan approval patterns by evaluating applicant demographics, employment status, and credit history data.
* Identified and documented key variables influencing loan rejection rates, including low credit scores and inconsistent employment records.
* Developed dynamic Power BI dashboards to present regional loan distribution insights, enabling visual tracking of key performance indicators (KPIs).
* Supported strategic decision-making by delivering actionable insights for enhancing credit risk models and optimizing loan approval policies
* Technlogoies used : Python, MySQL, MS Excel, PowerBI

**Blinkit Data Analysis (**[**Project Link**](https://github.com/AritraSadhukhan/Blinkit-Data-Analysis)**)**

* Performed comprehensive sales and delivery analysis across different product categories, regions, and timeframes to understand customer purchasing behavior and operational efficiency.
* Identified peak order times and delivery performance trends, helping to optimize delivery routes, staffing, and service levels for better customer satisfaction.
* Analyzed product demand patterns and inventory turnover, providing insights into high-performing SKUs and helping reduce stockouts or overstock scenarios.
* Developed interactive Power BI dashboards to visualize key metrics such as order volume, delivery time, customer retention, and revenue trends, enabling faster and smarter business decisions.
* Technologies Used **:** Python, MySQL, MS Excel, PowerBI

**Illegal Hunting and Poaching Detection Using AI in Amazon Rainforest Birds(**[**Project Link**](https://github.com/AritraSadhukhan/Illegal-Hunting-and-Poaching-Detection-Using-AI-in-Amazon-Rainforest-Birds)**)**

* Developed a machine learning-based acoustic monitoring system to detect illegal bird poaching using bird song and gunshot audio data from the Amazon Rainforest.
* Extracted key audio features (MFCCs, Chroma STFT, Spectral Centroid, Zero Crossing Rate) and handled class imbalance with SMOTE to improve model training effectiveness.
* Trained and evaluated multiple ML models (SVM, Neural Networks, Random Forest, KNN, etc.), achieving up to **91.5% accuracy** in gunshot detection and high F1-scores for bird species classification.
* Leveraged ensemble learning and hyperparameter tuning (GridSearchCV) to enhance detection accuracy, supporting real-time, non-invasive surveillance for conservation initiatives.
* Technologies Used: Python, Machine Learning,Pandas

# CERTIFICATION

[Data Analytics Job Simulation](https://forage-uploads-prod.s3.amazonaws.com/completion-certificates/9PBTqmSxAf6zZTseP/io9DzWKe3PTsiS6GG_9PBTqmSxAf6zZTseP_KT3xowZ4hcBCJtQhF_1747545291726_completion_certificate.pdf) | Forage

[Data Analytics Basics](https://www.linkedin.com/learning/certificates/dae86169015bcb749ff49002f1f95b568c53a79699d9546d3d8d33e6d38c137d?trk=share_certificate) | LinkedIn Learing

# EDUCATION

## Bachelor of Engineering, Computer Science and Engineering (Cgpa-8.98) 2021-2025 Guru Nanak Institute Of Technology ,Kolkata

**XII,Dumdum Krishna Kumar Hindu Academy , (WBCHSE),77.6% 2020-2021**

**X,Dumdum Krishna Kumar Hindu Academy ,(WBBSE),85.71% 2018-2019**