

Nipu Moni Dutta

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Education

Kaziranga University

2023 - 2025

Master of Computer Application(MCA)

Technical Skills

- **Data Analysis & Manipulation** : SQL (Joins, CTEs, Window Functions, Aggregate Functions, Query Optimization), Python (Pandas, NumPy), Excel (Power Query, XLOOKUP, Pivot Tables, Data Cleaning, Filtering & Sorting)
- **Data Visualization & Reporting** : Power BI (Interactive Dashboards & Reports, DAX, Custom Visuals), Python (Matplotlib, Seaborn), Excel (Charts & Conditional Formatting)
- **ETL & Data Processing** : Power Query (Power BI & Excel), ELT Processes, Data Transformation & Modeling
- **Statistical Analysis** : Descriptive Statistics (Mean, Median, Mode, Variance, Standard Deviation), Exploratory Data Analysis (EDA), Outlier Detection (Z-score, IQR)
- **Development Tools** : Jupyter Notebook, GitHub

Work Experience

IBM

Feb 2025 - Mar 2025

IBM Career Education Program

Onsite

- Completed a **100-hour industry-aligned Data Science project**.
- Performed data preprocessing, feature analysis, and result interpretation.
- Worked on **AI-driven medical diagnosis (Oral Cancer Detection)**

NIELIT Jorhat (Internship)

Mar 2025- Jun 2025

Data Analytics Intern | Python, NLP

Onsite

- **Cleaned, transformed, and analyzed** speech and text datasets **using Python**.
- **Evaluated NLP outputs using** Word Error Rate (WER) **and similarity metrics**.
- **Achieved ~85%** sentence-level matching accuracy, **improving model reliability**

Projects

Zepto Grocery Inventory SQL Analysis | [GitHub](#)

- Analyzed **3,732 products across 14 categories** using MySQL.
- Identified **₹1.4M+ revenue contribution** from Cooking Essential.
- Detected **12.1% out-of-stock rate** for premium SKUs and proposed supply improvements

Customer Shopping Behavior Analysis | [GitHub](#)

- Processed **3,900+ transactions** using Python and SQL.
- Built **Power BI dashboards** to visualize revenue and customer trends.
- Segmented customers into **New, Returning, and Loyal** groups.
- Recommended loyalty programs to increase repeat purchases.

Global Layoffs Analysis (2020-2025) | [GitHub](#)

- Cleaned and standardized **1,000+ records** using SQL.
- Performed EDA to identify **industry, geographic, and time-based trends**.
- Applied **window functions** for YoY growth and company ranking analysis.
- Identified high-risk companies with **≥50% workforce reduction**.

Relevant Coursework / Certifications

- IBM Data Science Bootcamp - IBM