BISHAL SAMANTA

Data Scientist

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Education

MAKAUT	Kolkata, India
B.Tech, Electronics and Communication Engineering	June 2019 - June 2023
CGPA - 8.83	

Technical Skills

Languages :	Python, SQL, C/C++, Scala,Shell Scripting
Tools :	Jupyter Notebook, Tableau, Excel, Google Colab, Hadoop, Airflow, Databricks
Frameworks :	PySpark, Apache Hive, Numpy, Pandas, Matplotlib, Scikit-Learn
Platforms :	Azure(Data Factory,Blob Storage),AWS(S3)

Experience

Jio Platforms Limited — December 2023 – Present, Mumbai, India
Data Scientist

- Developed an anomaly detection system using the **Median Absolute Deviation (MAD)** algorithm to flag irregular patterns in network KPIs and integrated with a **Teams webhook** to deliver real-time anomaly alerts, reducing manual investigation time by **40%** and improving incident response efficiency.
- Designed and implemented an end-to-end firmware monitoring pipeline using **PySpark** on **Databricks**, enabling automated processing and aggregation of device metrics across multiple categories. Integrated the output with **Office 365 tools (Excel, SharePoint)** using **Python** for seamless stakeholder access, resulting in an **85%** reduction in processing time and significantly improved reporting efficiency.
- Optimized Jio's FTTX ecosystem by designing **SQL workflows** and scheduled **Databricks tasks**, improving operational efficiency by **50%** and delivering insights into device usage, connectivity, and feature adoption for targeted improvements.
- Built and implemented a PySpark-based **ETL pipeline** to extract, transform, and load customer device details into an **Amazon S3 bucket** through Databricks in Delta and Parquet formats.
- Built real-time **Tableau dashboards** to visualize key performance metrics, enhancing visibility into device reliability and usage patterns for executive decision-making.

Cognizant Technology Solutions
Programmer Analyst Trainee

- Acquired in-depth knowledge of **ETL (Extraction, Transformation, and Loading)** processes and **Data Warehousing** technologies, and successfully implemented a Hospital Management System using **Talend** and **MySQL**.

Projects

Brain Tumor Segmentation using Deep Learning
https://github.com/bishal9095/BrainTumor_Detection

- Created a Brain Tumor Segmentation model with an **accuracy of 98.5%**, using the Brats Dataset, consisting of real MRI images of the brain. Performance improvement techniques such as adding dropout layers and feature engineering were used.

LIMS Automation
https://github.com/bishal9095/LIMS_automation

- Automated the extraction of medical records and billing data from a CRM system using **Python and Selenium**, streamlining manual workflows and enabling accurate revenue collection analysis. Improved efficiency in medical data management and financial reporting by eliminating repetitive tasks.

Links

- Github: https://github.com/bishal9095
- LinkedIn: https://www.linkedin.com/in/bishal-samanta-882ab3284/
- Leetcode: https://leetcode.com/code_is_in_my_veins

Certifications

Google Data Analytics Specialization Certificate	November	2024
Microsoft Azure Data Fundamentals	April	2025