

# BISHAL SAMANTA

Data Scientist

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## Education

MAKAUT

B.Tech, Electronics and Communication Engineering

CGPA - 8.83

Kolkata, India

June 2019 - June 2023

## 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

Data Scientist

December 2023 – Present

Mumbai, India

- 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

May 2023 - November 2023

Kolkata, India

- 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](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](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](https://leetcode.com/code_is_in_my_veins)

## Certifications

Google Data Analytics Specialization Certificate

Microsoft Azure Data Fundamentals

November

2024

April

2025