

# Bishal Samanta

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## EDUCATION

### MAKAUT

B.TECH IN ELECTRONICS AND  
COMMUNICATION ENGINEERING  
August 2023 | Kolkata, India

### UTTARPARA GOVT. HIGH SCHOOL

HIGHER SECONDARY( CLASS XII)  
March 2018 | Kolkata,India

### H.M. HIGH SCHOOL(CLASS X)

Feb 2016| Kolkata, India

## LINKS

Github: <https://github.com/bishal9095>

LinkedIn:

<https://www.linkedin.com/in/bishal-samanta-882ab3284/>

Leetcode: [https://leetcode.com/code\\_js\\_in\\_my\\_veins/](https://leetcode.com/code_js_in_my_veins/)

## COURSEWORK

Data Structures and Algorithms  
Computer Network  
Object Oriented Programming  
Computer Architecture  
Web Technology  
Artificial Intelligence

## SKILLS

### Programming

Python • MySQL • C/C++ • Scala  
Frameworks

Numpy • Pandas • Matplotlib

• Scikit-Learn

• Apache Spark • Apache Hive • Node.js  
Tools

Jupyter Notebook • Power BI • Excel

• Google Colab • Hadoop • Kubernetes

• Databricks

### Platforms

Azure • Linux

## LANGUAGES KNOWN

English,German,Bengali,Hindi

## EXPERIENCE

### JIO PLATFORMS LIMITED | SOFTWARE DEVELOPMENT ENGINEER I

Dec 2023 - Present | Mumbai, Maharashtra

- Initiated **data-driven initiatives** to improve the **efficiency of Jio's FTTX ecosystem by 50%**. Utilized data analytics and visualization techniques to provide actionable insights into device counts,authentication failures,client connectivity, and feature utilization (parental control, MAC stitching).
- Conducted network integration testing to identify critical issues, enabling collaboration with cross-functional teams for timely resolution and improved system performance.
- Developed and maintained automated frameworks using Python, reducing manual effort and **boosting productivity by 35%**.

### COGNIZANT TECHNOLOGY SOLUTIONS | PROGRAMMER ANALYST TRAINEE

May 2023-Nov 2023 | Kolkata, India

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

### PLASMA ANALYSIS CENTRE & IMAGING SOLUTION | JUNIOR DEVELOPER

Dec 2022 - May 2023 | Kolkata, India

- Worked with a **team of 4 people** to develop their in-house field tracking software for managing Sales and Blood Collector Team.
- **Developed the Database and necessary APIs** for the application, the Calendar class to keep track of the schedules of the field agents and the Front-end for an interactive usage.

Technologies Used: React Native, MongoDB,Node.js,Express.js

## 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.

Technologies used: Python, Numpy, Google Colab, Pandas, Keras, Tensorflow

### LIMS AUTOMATION

[https://github.com/bishal9095/LIMS\\_automation](https://github.com/bishal9095/LIMS_automation)

- **Automated web scraping** of target files using Python and Selenium. Efficiently extracted data for further analysis and processing, streamlining manual tasks and improving data management.

## CERTIFICATIONS

2024 Google Data Analytics,Google

2024 Data Literacy: Exploring and Describing Data, LinkedIn Learning

2024 Data Science Foundations: Fundamentals,LinkedIn Learning

2019 German A2 Certification, Deutsch Welle