

Bishal Samanta

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EDUCATION

MAKAUT

B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING

August 2023 | Kolkata, India

CGPA:8.83

UTTARPARA GOVT. HIGH SCHOOL

HIGHER SECONDARY(CLASS XII)

March 2018 | Kolkata,India

Percentage:73

H.M. HIGH SCHOOL(CLASS X)

Feb 2016| Kolkata, India

Percentage: 85.57

LINKS

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

LinkedIn:

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

Leetcode: 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 •Tableau •Excel

•Google Colab •Hadoop •Kubernetes

•Databricks

Platforms

Azure •Linux

LANGUAGES KNOWN

English,German,Bengali,Hindi

EXPERIENCE

JIO PLATFORMS LIMITED | DATA ANALYST

Dec 2023 - Present | Mumbai, Maharashtra

- Developed a **hybrid anomaly detection model** using **Facebook Prophet** and **Isolation Forest** to identify irregularities in network KPIs such as total homes and data usage in GB, leading to a **35% increase** in detection accuracy and a **40% reduction** in investigation time.
- Spearheaded data-driven initiatives to enhance the **efficiency of Jio's FTTX ecosystem by 50%** by designing optimized **SQL queries** and scheduling **automated tasks in Databricks**. Leveraged data analytics and visualization to deliver actionable insights into **device counts, client connectivity**, and **feature adoption** (e.g., parental control, MAC stitching), driving targeted improvements across the network.
- 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 to keep track of the schedules of the field agents and the Front-end for interactive usage.

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

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.

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

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 Science Foundations: Fundamentals,LinkedIn Learning

2019 German A2 Certification, Deutsch Welle