

Saumya Ranjan

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Education

Birla Institute of Technology, Mesra (BIT MESRA)

December 2020 - July 2024

B.Tech in Electronics and Communication Engineering

CGPA: 8.96

Relevant Courses: OOP (C++), Algorithms and Data Structures I and II (C++), Machine Learning, Neural Networks

Work Experience

Data Engineer, Axis Bank

August 2024 - present

Retail Lending Operations

Python, SQL, Informatica, Pyspark, Hadoop, AWS, ETL, Github, Git

- Automated data extraction and transformation processes, reducing manual effort by 40% and improving data accuracy by 25%.
- Streamlined ETL processes using Informatica and Pyspark, cutting data processing time by 30%.

Data Science Intern, Axis Bank

May 2023 - July 2023

- Collaborated with cross-functional teams to deploy machine learning models on AWS, enhancing fraud detection capabilities by 18%
- Enhanced existing machine learning model training processes through optimization techniques that shortened training times by nearly 6 hours per iteration.
- Managed and maintained large-scale Hadoop clusters, ensuring 99.9% uptime and efficient data storage solutions.

Projects

Alzheimer's Detection using Speech Signal Analysis

Nov 2023

Alzheimer's Detection through Speech and Prosody Analysis for Early Diagnosis

Python

- Developed an Alzheimer's detection model using Machine Learning and Deep Learning techniques like SVM, Random Forest, and MFCC features.
- Analyzed speech signals and prosody patterns to enhance early diagnosis accuracy

Stick - Stock

September 2023

Stock and Inventory Management System

Next.js, MongoDB, JavaScript, HTML, TailwindCSS, Git

- Developed a stock management system using Next.js and MongoDB
- Utilized MongoDB to create a highly scalable and efficient database system for the stock management project

Skills

Technologies & Tools:

C++, Python, SQL, PySpark, Hadoop, Hive, Kafka, MongoDB, Express.js, JavaScript, React.js, Node.js, Git, Github, Jenkins

Certifications:

IBM Certification : Python for Data Science, AI and Development, UC Davis : SQL for Data Science

Leadership and Volunteering

IEEE Student Branch, BIT Mesra

Android and Web Development Team (MERN Stack)

- Orchestrated workshops, coding sessions, and events to enhance skills for 100+ students.

Google Developers Students Club, BIT Mesra

Lead Competitive Programmer, Competitive Programming and Web Development Team

- Conducted various Workshops on Competitive Programming and C++ for 100+ students

Achievements

- Specialist on Codeforces:** Successfully achieved the title of Specialist on CodeForces
- CF Round 919: Rank 2451** Attained a rank of 2451 in the Codeforces Round 919 (Div. 2)
- CF Round 921: Rank 2720** Got a rank of 2720 in the Codeforces Round 921 (Div. 2)
- Leetcode Contest 382: Rank 2884** Stood at a rank of 2884 in the Leetcode Weekly Contest 382
- Solved 600+ DSA questions on platforms including Leetcode, GeeksforGeeks, Codeforces, etc**
- G.P. Birla Scholarship Recipient:** Received the prestigious G.P. Birla Scholarship for outstanding Academic performance.