

# Saumya Ranjan

✉ [saumyaranjan1111@gmail.com](mailto:saumyaranjan1111@gmail.com) | 📞 +91 8789404882  
🌐 [github.com/saumyaranjan1111](https://github.com/saumyaranjan1111) | 🔗 [linkedin.com/in/ranjansaumya/](https://linkedin.com/in/ranjansaumya/)

## Education

**Birla Institute of Technology, Mesra (BIT MESRA)**  
B.Tech in Electronics and Communication Engineering

December 2020 - July 2024

**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:**

React.js, Node.js, C++, Python, SQL, MongoDB, Express.js, JavaScript, HTML, Python, Git, Github

**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 the Competitive Programming Platform (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.