

RANVEER SAHAY

Ranchi, Jharkhand

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EDUCATION

Indian Institute of Engineering Science and Technology, Shibpur

Bachelor of Technology in Computer Science and Technology

Dec. 2021 – July 2025 (Expected)

Current CGPA: 8.62

Delhi Public School, Ranchi, Jharkhand

Central Board of Secondary Education (CBSE) Board

Mar. 2021

Percentage: 96.4%

PROFESSIONAL EXPERIENCE

COAL INDIA LTD, HEADQUARTERS, KOLKATA | *AWS S3, Lambda, Textract, Kendra, SQS*

Enterprise Search Solution

May 2024 - June 2024

- **AWS Services:** Utilized the following AWS services for various tasks:
 - **S3:** Used for scalable document storage, managing 30+ large CIL documents.
 - **Lambda:** Employed for serverless document processing, including starting **Textract** jobs and processing results.
 - **Textract:** Used for extracting text and data from documents, aiding in document processing.
 - **Kendra:** Integrated for advanced search capabilities, allowing efficient search across stored documents.
 - **SQS:** Managed job sequencing and for tasks with retry mechanisms to ensure completion despite failures or timeouts.

PROJECTS

INTELLIGENT TRANSPORT SYSTEM | *Python, NumPy, Pandas, Scikit-Learn*

[GitHub: [GitHub](#)]

B. Tech Major

- **Traffic Prediction Modelling:** Proposed models for an Intelligent Transport System using LSTM + GAT, DCRNN and A3TGCN for traffic prediction and route optimization.
- **Diffusion Convolution Recurrent Neural Network (DCRNN):** Proposed a DCRNN model utilizing diffusion convolution to capture spatial dependencies in traffic sensor networks and temporal patterns for precise traffic forecasting.

EMPLOYEE MANAGEMENT SYSTEM | *Django-REST, SQLite, VS Code*

[GitHub: [GitHub](#)]

June 2024- July 2024

- **Employee Data Management:** Developed CRUD with Django REST Framework using ViewSets, serializers, and authentication, enabling secure and efficient employee management.
- **Filtering System:** Added filtering by department, role, and hire date for enhanced data handling.

TECHNICAL SKILLS

- **Problem Solving:** 400+ Problems on LeetCode, 400+ problems on GFG
- **Languages:** C++, Python
- **Version Control:** Git, GitHub
- **Cloud:** AWS
- **Machine Learning:** NLP
- **Relevant Coursework:** DSA, DBMS, OS, OOPS, Networking
- **Soft Skills:** Teamwork, Communication

ACHIEVEMENTS

- Secured State Rank 9 in NTSE-2019
- Secured AIR 9847 in IIT JEE ADVANCED 2021