

Robin Bansal

B.Tech (2021 - 25)

Computer Science and Engineering

Indian Institute Of Information Technology, Nagpur

EDUCATION

•Indian Institute Of Information Technology, Nagpur

BTech - Computer Science and Engineering

Dec 2021 - June 2025 (expected)

•Govt Sr. Sec. School Nabha

Punjab School Education Board

March 2021

Percentage: 94 %

EXPERIENCE

•Data Analyst intern, Business Department, Lloyds Logistics (Lloyds Metals)

July 2024 - Present

Nagpur, India

- Gather, clean, and organize large datasets related to logistics operations, transportation, and supply chain data. Perform detailed analysis using **statistical tools and techniques**. Create comprehensive reports and visualizations using tools like **Excel, Power BI, or Tableau**.
- Created a web-based geofencing system for live truck monitoring, resulting in improved route adherence, reduced unauthorized stops, and enhanced decision-making capabilities for logistics management.
- Helped design and craft a new relay model tailored to Lloyds Metals's logistics needs, significantly reducing driver downtime and improving well-being through data-driven scheduling
- Designed and implemented a fair and efficient driver salary model, leveraging statistical analysis to align compensation with performance, increasing driver satisfaction and operational efficiency

•Project Intern, R&D IIIT Guwahati

May 2024 - July 2024


Guwahati, India

- SERB sponsored project titled, "**Edge Service Caching with Relaying to Reduce Latency**"
- Aimed to **minimize latency while maintaining cost constraints** by implementing a solution that divides cache between public and private storage
- Achieved **better latency (up to 36.24% improvement)** and **reduced cost (up to 83.05% reduction)** compared to the HCBF tree proposed by EDindex

PERSONAL PROJECTS

•Optimized Data Forwarding and Cache Management System for Networked Edge Servers (May 2024 - July 2024)


Using Python and Multithreading

-  GitHub Link
- Developed a system to optimize data forwarding and cache management for a network of edge servers
- Implemented multithreading to handle concurrent service requests, improving the system's responsiveness
- Utilized statistical methods and the Landlord algorithm for efficient cache management and resource allocation
- Achieved significant reductions in latency and improved bandwidth utilization

•Image Captioning

(April 2024)

A intersection of NLP and Computer vision


-  GitHub Link
- Implemented an **Image Captioning** system combining the strengths of **CNNs and RNNs**
- Utilized **DenseNet CNN** for feature extraction and **LSTM** as the RNN for sequence generation
- Utilized **Flickr8k** dataset, achieving **BLEU-1** score of 0.55 and **BLEU-2** score of 0.35

•IIT Butibori College Website

iitbutibori.com

Frontend work (Personal Portfolio)

(Oct 2023 - Nov 2023)

-  GitHub Link
- Use of HTML, CSS, Js, Bootstrapping and JQuery
- Responsive, ensuring compatibility and optimal view across various devices
- Functional, collapsible Navigation Bar and dynamic interactive elements with Scroll Animation

TECHNICAL SKILLS AND INTERESTS

Languages/: C++, C, Java, Javascript, Python

Developer Tools: HTML, CSS, Javascript, React.js, Bootstrapping

Cloud/Databases: MySQL, NoSQL, Oracle

Areas of Interest: Competitive Programming, Linux, Algorithm, Data Science, ML, Data Science, Tableau, Frontend, Linear Programming

Others: Teamwork, Leadership, Project Management, Communication

POSITIONS OF RESPONSIBILITY

- Class Representative**, CSE(21-25) Section-B *Jan- May 2024*
- DotSlash Club member**, Competitive programming Club, IIITN *July 2022 - Present*
- Management Team Lead**, Main Stage, 3rd Convocation, IIITN *Oct 2023*
AICTE chairman, Dr. Anil Sahasrabudhe was Chief Guest

ACHIEVEMENTS

- Codeforces| Pupil** DSA and CP questions *Nov, 2022*
Solved more than 250+ Problems on codeforces| @its_ur_robin
- Codechef highest rating 1602| 3 Star** Global rank - 52 *Nov, 2022*
Given 20+ contest on codechef| @its_ur_robinb
- HackerRank 5 star** in Problem solving, Algorithm, C++ *2023 - present*
Solved more than 100+ Problems
- JEE Main'21 AIR-26459** 97.2 %ile *Feb 2021 - Sept 2021*