Robin Bansal

B.Tech (2021 - 25)
Computer Science and Engineering
Indian Institute Of Information Technology, Nagpur

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EDUCATION

•**Indian Institute Of Information Technology, Nagpur** *Dec 2021 - June 2025 (expected)*
BTech - Computer Science and Engineering

•**Govt Sr. Sec. School Nabha** *March 2021*
Punjab School Education Board 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** *Frontend work (Personal Portfolio)*
iitbutibori.com *(Oct 2023 - Nov 2023)*

  – ⚡ GitHub Link
  – Personal portfolio website and a phenomenal college website, leveraging HTML, CSS, JavaScript, Bootstrap, and jQuery to create visually appealing and functional user experiences.
  – Implemented responsive web design principles to ensure compatibility and optimal viewing across various devices, with features like dark mode for enhanced user customization.
  – Integrated interactive features, including a collapsible navigation bar, smooth scroll animations, and dynamic UI elements to enhance usability

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*