

LITTLE JOHN SARONIYA

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🌐 [portfolio website](#)

Education

Indian Institute of Technology, Kharagpur

2020 – 2025

Bachelor of Architecture

CGPA-8.0

Experience

IIT Indore

May 2023 – Jul 2023

Software Engineer Intern - Prof. Sidharth Sharma

Indore, India

- Designed and deployed an Arabic OCR model with a **96%** confidence score, extracting text from the scanned documents
- Leveraged **CNN** and **NLP** techniques to train and optimize the OCR model, achieving exceptional recognition accuracy
- Developed a responsive, user-friendly website with **HTML**, **CSS**, and **Bootstrap** to showcase the Arabic OCR model

IIM Kozhikode

May 2023 – Jul 2023

Data Science Intern - Prof. Salamah Ansari

Kozhikode, India

- Employed Random forest and support vector machine algorithms to derive valuable insights from urban governance data
- Applied statistical modeling and **data visualization** methods to inform decision-making in solid waste management
- Contributed to impactful waste management, promoting sustainability and safeguarding public health through measures

Projects

Natural Language to SQL Generator Bot

Jun 2025

- Built an LLM-based SQL generator bot using Google Gemini, integrating RAG and NER for accurate query formation
- Outlined effective **prompt engineering** and schema-aware filtering to convert user input into precise **SQL** commands
- Achieved **94%** accuracy with input preprocessing techniques like **auto-completion**, **correction**, and **fuzzy** matching

Prediction of Amazon Cart Prices: A Multivariate Parameter Approach | Self Project

Mar 2024

- Built a pipeline for feature transformations with different models and their hyper tuning using **RandomizedSearchCV**
- Employed XGBoost regressor and linear regression to manage null values, enhancing quality and preprocessing efficiency
- Created custom features, implemented random forest regression, and attained an **R²** score of **0.94** through optimization

Quora Question Pairs: Identifying Duplicate Questions | Self Project

Feb 2024

- Devised an **NLP** model, detecting duplicates with **80.65%** accuracy, indicating the duplication probability for questions
- Conducted **text preprocessing**, removing HTML Tags, punctuation, and special characters, enriching the feature set
- Designed **custom features** like common word count and advanced metrics, enhancing inputs for **RF** and **XGBoost**

Competition

Kharagpur Data Science Hackathon 2022

- Qualified in the Kharagpur Data Science hackathon, optimizing HCP channels with **XGBoost** and **Random Forest**
- Enhanced prescription accuracy with time series forecasting and linear regression, ensuring compliance with constraints

Technical Skills

Languages: C++, Python, JavaScript, HTML/CSS, MySQL

Standard Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, XGBoost

Software/Tools: Git, Tableau, MS Excel, Jupyter Notebook, Google Colab, MS PowerPoint, Adobe Photoshop

Courses: Programming and Data Structure, Artificial Intelligence, Statistical Foundation of AIML, Project Management

Achievements

- Earned a bronze badge on CodeChef for problem-solving(110+ problems) and consistent participation in coding contests
- Achieved the highest rating of **1547** on LeetCode, solving 300+ problems, and 250+ intensive problems on InterviewBit
- Recognized as a 5-star coder on HackerRank, solving 130+ problems on Coding Ninjas with coding contest participation
- Secured town rank **2** in the **10th** Board examination, and achieved town rank **1**, receiving a laptop in the **12th** Board
- Attained district rank **2** in the National means cum merit scholarship examination 2015 among **50k+** students statewide

Leadership / Extracurricular

Space Technology Students' Society | Sub Head

Aug 2021 – Apr 2022

- Led the management of the Spats and NSSC Design Team, ensuring efficient coordination and execution of all projects
- Orchestrated a team of **25** members to organize India's largest space tech fest effectively, NSSC'22, with a **5k+** footfall

Students' Alumni Cell | Design Associate

Jan 2021 – Nov 2021

- Worked under the dean of Alumni Affairs & Branding to enhance interaction between **10k+** students and **40k+** alumni
- Compiled, designed, and published the 'Institute Yearbook **2021**', reaching and engaging over **100k+** IIT KGP Alumni