

Rudraneel Dutta

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TECHNICAL SKILLS

Languages: Java, C/C++, JavaScript, HTML/CSS, Python, SQL

Technologies: React, Node.js, MongoDB, Three.js, Detectron2, OpenCV, NumPy

Domains: Web Development, Machine Learning, Data Analytics, Cybersecurity, 3D Printing

EDUCATION

Kalinga Institute of Industrial Technology

2021 – 2025

Bachelor in Technology in Computer Science and Engineering

La Martiniere for Boys

2021

Indian School Certificate

EXPERIENCE

Cybersecurity & Digital Forensics Intern

May 2023 – June 2023

Ministry of Electronics and Information Technology, Government of India

- Internship as Cybersecurity & Digital Forensics Analyst with a hands-on experience in managing eminent cases of cybercrime and data analysis.
- Took on the role of Investigating Officer (IO) for a prominent ICPO–INTERPOL assignment, uncovered and organized digital evidence material pertaining to the case.

Team Lead

Feb. 2023 – Apr. 2024

IoT Lab, Kalinga Institute of Industrial Technology

- Developed and Deployed multiple IoT-based solutions to common industrial problems using different tools such as Arduino and NodeMCU to address various problems.
- Set up the 3D Printing Domain as Founding Member, conducted workshops and seminars on Rapid Prototyping.

PROJECTS

E-Commerce Website | *Next.js, Tailwind CSS, React, MongoDB, Firebase*

Mar. 2024

- Built a modern and responsive UI, featuring product listings, user profiles and a shopping cart system.
- Developed user authentication and used a secure payment gateway for a seamless checkout process.

Autonomous Driving System | *SciKit, TensorFlow/PyTorch, NumPy, pandas*

Mar. 2024

- Built a real-time, light-weight lane and car detection system using deep learning by fine-tuning a CNN via TensorFlow for autonomous driving cars.
- Fine-tuned lane detection algorithm to better handle edge cases and difficult scenarios.

PeerSphere: The Student Platform | *JavaScript, HTML/CSS, React, Firebase*

Dec. 2023

- Deployed a robust platform to connect college students interested in swapping classes with ease and successfully handled 5000+ concurrent users during peak usage.
- Implemented a responsive user interface for managing user profiles, with dynamic filtering, search, and updates.

Question Paper Analyser | *Python, SciKit, PyTesseract, Gensim, CUDA*

Oct. 2023

- Document Layout Segmentation and Object Detection using the Detectron2 framework.
- Implemented Topic Modelling using Latent Dirichlet Allocation (LDA) via Gensim and PyLDAvis for visualization.

RESEARCH

Dutta, R., Mohanty, S. “A topic modelling approach to optimise study planning.” *Journal of Artificial Intelligence* (In press).