

Rudraneel Dutta

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TECHNICAL SKILLS

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

Technologies: React, Node.js, Express.js, Three.js, Django, Detectron2, OpenCV, Flask, PyTorch

Domains: Web Development, Machine Learning, 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 Intern

May 2023 – June 2023

National Institute of Electronics & Information Technology, MEITY, Govt. of India

- Internship as a Cybersecurity Analyst with hands-on experience in managing various cases of cybercrime and data analysis.
- Analysed and organized digital evidence material as the acting Investigating Officer (IO) for a prominent ICPO–INTERPOL assignment.

Team Lead

Feb. 2023 – Apr. 2024

IoT Lab, Kalinga Institute of Industrial Technology

- Developed multiple IoT-based solutions using tools such as Arduino and NodeMCU.
- Set up the 3D Printing Domain as founding member and conducted workshops on Rapid Prototyping.

PROJECTS

Autonomous Driving System | *SciKit, TensorFlow, PyTorch, OpenCV, Flask*

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.

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

Dec. 2023

- Deployed a robust website for college students to swap classes easily with a responsive UI for managing user profiles, with dynamic search, filtering, and updates.
- Successfully handled 5000+ concurrent users during peak usage.

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

Oct. 2023

- Implemented Topic Modelling using Latent Dirichlet Allocation (LDA) via Gensim to identify key topics in question papers for efficient study planning.
- Performed document Layout Segmentation and Object Detection using the Detectron2 framework.

Full Stack Developer Portfolio | *React, JavaScript, Bootstrap, Firebase*

Sep. 2023

- Deployed a responsive full stack portfolio website built with React, Bootstrap and Firebase.
- Created an admin dashboard to streamline updates and content management.

CERTIFICATIONS

IBM Full Stack Software Developer Professional Certificate

Coursera, Issued May 2024

AWS Academy: Introduction to Cloud

AWS Academy, Issued Mar. 2024

Google Cybersecurity Professional Certificate

Coursera, Issued Feb. 2024

RESEARCH

Dutta, R., Mohanty, S. (2024). Enhancing Exam Preparation Through Topic Modelling and Key Topic Identification. *Journal on Artificial Intelligence*.