Rudraneel Dutta

Phone: +918617705295 | its.rudraneel@gmail.com | linkedin.com/in/its-rudraneel | github.com/rudyoactiv

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*

PUBLICATIONS

Dutta, R., Mohanty, S. (2024). Enhancing exam preparation through topic modelling and key topic identification. *Journal on Artificial Intelligence*, *6(1)*, 177-192. https://doi.org/10.32604/jai.2024.050706