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, MongoDB, OpenCV, Flask, PyTorch
Domains: Web Development, Machine Learning, Cybersecurity, 3D Printing

EDUCATION

Kalinga Institute of Industrial Technology *2021 – 2025*
Bachelor of Technology in Computer Science and Engineering *82.2%*

La Martiniere for Boys *2021*
Indian School Certificate *88.5%*

EXPERIENCE

Intern *June 2024 – September 2024*
Tata Elxsi, Bengaluru

- Developed an automated system to label training data for self-driving cars.
- Used generative AI to identify vulnerabilities in automobiles with Llama 3.1 for automatic preliminary test case generation and penetration testing.

Intern *May 2023 – June 2023*
National Institute of Electronics & Information Technology, Kohima

- Examined multiple cases of cybercrime and analysed large datasets using Cellebrite UFED.
- Implemented parallel processing in the automated data retrieval process for a prominent overseas assignment to improve extraction speed by 20%.

PROJECTS

Kraft3D: Online 3D Printing Store | *MongoDB, Express.js, React, Node.js* *June 2024*

- Launched India's most affordable e-commerce platform for 3D printed products.
- 250+ orders delivered successfully within the first 4 months.
- Used React and Node.js, with MongoDB for database operations, Firebase for authentication and Stripe to ensure secure user transactions. (rudraneeldutta.com/Kraft3D)

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.
- Created a dataset of Indian automobiles for training the model on Indian traffic conditions.

PeerSphere: The Student Platform | *JavaScript, HTML, CSS, React, Firebase* *Dec. 2023*

- Deployed a robust website to help college students swap classes easily, with a responsive UI for managing user profiles, and dynamic search and filtering.
- Used Firebase for user authentication and database operations. (rudraneeldutta.com/PeerSphere)

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