Rudraneel Dutta

www.rudraneeldutta.com | 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

La Martiniere for Boys *2021*
Indian School Certificate

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

TypeScribe: Text to Handwriting | *Python, Django, Tkinter, TensorFlow* *Dec. 2024*

- Built an Open-Source application that can generate natural handwritten documents from text using a Recurrent Neural Network (RNN).
- Made a desktop application that runs locally and allows full customization of documents.
- Awarded 50+ stars on GitHub after release. (rudraneeldutta.com/typescribe)

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)

AI Medical Companion | *HTML, CSS, Flask, TensorFlow, OpenCV, Google Gemini* *Mar. 2024*

- Built a web app to diagnose medical conditions like breast cancer, Covid-19, heart diseases and diabetes using pre-trained models.
- Integrated an AI chatbot using Gemini for personalized advice. (rudraneeldutta.com/diagnosis)

CERTIFICATIONS

IBM Full Stack Software Developer Professional Certificate *Coursera, Issued May 2024*
AWS Academy: Introduction to Cloud *AWS Academy, Issued Mar. 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