Rudraneel Dutta

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TECHNICAL SKILLS

Languages: Java, Kotlin, C/C++, JavaScript, HTML/CSS, Python, SQL
Frameworks: React, ThreeJS, Arduino, Scikit-learn
Domains: Cybersecurity, Web Development, 3D Printing, IoT, Machine Learning

EXPERIENCE

Ministry of Electronics and Information Technology (MEITY), Govt. of India

Cybersecurity & Digital Forensics Intern
National Institute of Electronics & Information Technology   *May 2023 – June 2023*
- Internship as **Cybersecurity** & **Digital Forensics Analyst** with hands-on experience in handling live cases pertaining to *cybercrime* and *data retrieval*.
- Analysis of evidence material on hardware pertaining to ongoing cases.

Guest Speaker
National Institute of Electronics & Information Technology   *May 2023*
- Spoke on exploring Rapid Prototyping in the field of Handicrafts and Textiles and its future.
- Conducted training sessions & workshops for students and faculty on 3D modelling and 3D printing.

Associate
Ministry of Electronics and Information Technology (MEITY)   *November 2021*
- Participated in the "Digital Intervention on Handloom and Handicraft Sector" exposition at Hornbill Festival, 2021, in the field of "**Rapid Prototyping**".
- Demonstrated the advantages of **3D Printing** to state officials pertaining to rural development and the Indian Handicrafts sector.

IoT Lab, KIIT

Team Lead
Kalinga Institute of Industrial Technology   *June 2023 - Present*
- Development and Implementation of multiple IoT-based solutions following best practices and industry standards using tools such as **Arduino** to drive scalability and interoperability.
- Set up the 3D Printing Domain as Founding Member. Conducted several workshops and seminars on Rapid Prototyping.

PROJECTS

3D Model Editor Web App | *JavaScript, HTML/CSS, React, ThreeJS*   *May 2023*
- A Web Application built in JavaScript, using frameworks like Three.JS, and CSG to customize and generate 3D Models in a simulated environment.
- Allow optimization of models to be 3D Printing ready.

Portfolio Website | *JavaScript, HTML/CSS, React, ThreeJS, Firebase*   *June 2023*
- A full-stack portfolio website project built using modern frameworks like React with Google Firebase to handle backend and real-time data with a responsive UI design to adapt to a wide range of screen sizes.

Question Paper Analyzer | *Python, SciKit, NLTK, PyTesseract*   *July 2023*
- OCR-powered tool for efficient question extraction from PDFs using Natural Language Processing (NLP) and Latent Dirichlet Allocation (LDA) for accurate topic modeling and **Natural Language Processing.**
- Utilized PyLDAvis to create an interactive visualization that graphically displays the identified topics.

EDUCATION

Kalinga Institute of Industrial Technology   *B. Tech CSE (2021 – 2025)*
La Martiniere for Boys, Calcutta   *ICSE, ISC (2006 – 2021)*