

Rudraneel Dutta

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

Frameworks: React, ThreeJS, Bootstrap

Tools: Pandas, NumPy, Matplotlib, Scikit-learn, PyTesseract, Pillow, Git, Firebase

Skills: Cybersecurity, Web Development, 3D Printing, IoT, Android Development, Machine Learning

Experience

Ministry of Electronics and Information Technology (MEITY)

Cybersecurity & Digital Forensics Intern

National Institute of Electronics & Information Technology, May 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

NIELIT Kohima, 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), 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, 2023

- 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 practices.

Projects

[3D Model Editor Web App](#) / JavaScript, HTML/CSS, React, ThreeJS

- 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.

[Question Paper Analyzer](#) / Python, SciKit, NLTK, PyTesseract

- OCR-powered tool for efficient question extraction from PDFs employing **NLTK** and **SciKit-Learn** for accurate topic modeling and **Natural Language Processing**
- Demonstrated proficiency in NLP, machine learning, data visualization, and Python.

[Portfolio Website](#) / React, JavaScript, SCSS, Firebase

- A full-stack portfolio website project built using Modern frameworks such as React using tools like Google Firebase to handle backend data and real-time data client-side modifications.

Education

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