

Rudraneel Dutta

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TECHNICAL SKILLS

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

Frameworks: React, ThreeJS, Arduino, SciKit-learn, Detectron2, PyTorch

Domains: Cybersecurity, Web Development, 3D Printing, IoT, Machine Learning

EXPERIENCE

Ministry of Electronics and Information Technology (MEITY), Government of India

Cybersecurity & Digital Forensics Intern

May 2023 – June 2023

- Internship as Cybersecurity & Digital Forensics Analyst with hands-on experience in handling live cases of *cybercrime* and *data retrieval*.
- Analysis of evidence material on hardware pertaining to ongoing cases.

Guest Speaker

May 2023

- Conducted training sessions & workshops for students and faculty on 3D modelling and 3D printing.
- Addressed State officials on the benefits of 3D Printing in the development of the Indian Handicrafts sector at the “Digital Intervention on Handloom and Handicraft Sector” exposition, 2021.

IoT Lab, KIIT

Team Lead

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 workshops and seminars on Rapid Prototyping.

PROJECTS

PeerSphere: The Student Platform | JavaScript, HTML/CSS, React, Firebase

December 2023

- Deployed a robust platform to connect college students interested in swapping classes with ease and successfully handled 5000+ concurrent users during peak usage.
- Implemented a responsive user interface for managing and displaying student profiles, including dynamic filtering, search, and dynamic profile updates.

Topic Modelling and Question Paper Analysis | Python, SciKit, NLTK, PyTesseract, Gensim

October 2023

- Document Layout Segmentation and Object Detection using the Detectron2 framework.
- Implemented Topic Modelling using Latent Dirichlet Allocation (LDA) via Gensim and PyLDAvis for visualization.

Personal 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.

3D Model Editor | JavaScript, HTML/CSS, React, ThreeJS

May 2023

- A Web Application built in JavaScript, using frameworks like ThreeJS, and CSG to customize and generate 3D Models in a simulated environment optimized for 3D Printing.

RESEARCH

Dutta, R., Mohanty, S. (2024). A topic modelling approach to optimise study planning [Manuscript pending publication]. *International Journal of Educational Technology in Higher Education*.

EDUCATION

Kalinga Institute of Industrial Technology
La Martiniere for Boys, Calcutta

B. Tech, CSE (2021 – 2025)
ICSE, ISC (2006 – 2021)