

KANAK MITTAL

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EDUCATION

GRAPHIC ERA UNIVERSITY – Dehradun, India
Bachelor of Technology, Computer Science & Engineering

July 2019 - June 2023
Cumulative GPA: 9.53/10

WORK EXPERIENCE

SAMSUNG RESEARCH INSTITUTE BANGALORE – Remote

PRISM Research Intern

Sept 2021 – Jan 2022

- Led a team of 4 individuals researching various components of 5G Networks.
- Used Machine Learning to optimize topology management of IAB Networks in order to improve User Equipment coverage and satisfy the specified Quality of Standard.
- Communicated the findings with Samsung Mentors and worked on their Feedback.

HIRBOX – Brooklyn, New York (Remote)

Software Development Intern

June 2021 – Sept 2021

- Developed a Machine Learning Algorithm that could extract and analyse relevant information from a resume and recommend appropriate employment possibilities.
- Recruiters could also utilise the Algorithm to sort out relevant resumes that meet the job profile.

PROJECTS

DELTA DIAGNOSE (Chest MRI Classifier) – ([GitHub](#))

Built Using - Python, TensorFlow, Keras, FastAPI, Streamlit

- Utilized TensorFlow to train a Convolutional Neural Network to diagnose chest MRIs for COVID-19 and Viral Pneumonia with an accuracy of 99%.
- Used Quantization Technique to reduce the Trained Model size from 30.1 MB to 2.41 MB.
- To utilize the model, developed an API using FastAPI with a request serving time of less than 1 second and deployed it on [Heroku](#).

DETECTIVE DISCORD – ([Demo Video](#))

Built Using - Python, Discord.py, SQLite

- Devised a Discord bot that can detect and eliminate Nitro Scam Links in real time to protect other users.
- Using SQLite, details of such users are recorded in a database, and they are immediately banned after three such incidences.
- **Currently protecting over 10000 users worldwide.**

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, Scala

Databases: MySQL, MongoDB

Tools and Frameworks: Git, Docker, Flask, FastAPI, Node.js, PHP, Bootstrap, TensorFlow, Azure, Streamlit

ACHIEVEMENTS

- **First Overall at “A Hack A Day” Hackathon** – Virtually collaborating on a team of 3 and competing with 125 participants, designed a web-app [Deforgify](#) that can distinguish between Artificially Generated Faces and Real Faces thus preventing malicious use of them.
- **Won 20 Hackathons so far** (all details on [Devpost](#) profile)
- **Secured an All India Rank of 6988 in GATE 2022 Exam**

VOLUNTEER EXPERIENCE

GOOGLE DEVELOPER STUDENTS CLUB – GRAPHIC ERA UNIVERSITY

Tech Lead

Sept 2021 – Present

- Providing guidance and mentorship to other students, assisting them with projects and resolving their doubts.
- Organizing Technical Workshops and Events for them.