

Akshita Dixit



WORK EXPERIENCE

DAYNIL SOLUTIONS PVT. LTD. | SOFTWARE DEVELOPMENT INTERN

Remote | June 2021 – Present

- **Java** Backend Developer
- Worked with **Hibernate, Maven, SpringBoot** and databases like **MySQL** and **PostgreSQL**

SUMMER RESEARCH INTERN | DR. SANJOY PRATI HAR

IIIT Kalyani | May 2021 - Present

- Implementation of **Isotactic Covers of digital objects in a binary image** with varying granulation sizes.
- Ongoing research to automate no. of vertices, grid size and optimal minimum deviation from the true boundary for an entire dataset of binary images.

EDUCATION

Indian Institute of Information Technology

Kalyani, West Bengal | Jun 2023

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

Grade (CGPA): 8.87/10.0

PROJECTS

RAKSHA □

TENSORFLOW, KERAS, FLASK, DEEP LEARNING, VIDEO CLASSIFICATION

Virtual self defense trainer. Estimates human pose using a webcam and mediapipe and analyzes the pose in order to give a score and performance based review. This framework aims at teaching self defense to users. Accuracy is ideally **25% greater than UCF-101**

MEDICARE-PRIME □

PYTHON, TENSORFLOW, KERAS, FLASK, DOCKER, DEEP LEARNING

A menu based multiple chronic disease detection/prediction system which will detect if a person is suffering from a severe disease by taking essential inputs. Built using deep learning and machine learning models in an **accuracy range of 85-99% and loss≈0.5%**. Deployed using Flask.

VCALLZER □

■ PYTHON, OPEN-CV, PYAUDIO, PEER.JS, DLIB, IMAGE/VIDEO/SOUND PROCESSING

Application that lets remote clients connected over the internet communicate over video calls and yet retain privacy. Uses facial landmark detection algorithm from **Dlib module and Helen Dataset** to sketch out the outline. Uses pyAudio to transmit audio in modulated voice to conceal the identity of users on either side. (Click on icon to watch demo video)

TRACKIZER □

■ JAVA, MAVEN, TOMCAT, JSP, MYSQL, OOPS, HEROKU

Maven Java WebApp archetype for placing orders, tracking, updating and managing a courier service built as a part of college project. Allows 3 different roles - Admin, Retailer and User with different privileges. Uses MySQL for database configuration and JSP for GUI. Uses Apache Tomcat as a server for loading the webapp. (Click on icon to watch demo video)

SKILLS

Languages: Java, Python, JavaScript, C, SQL, HTML, CSS

Database: SQL, PostgreSQL, Hibernate

Machine Learning: Tensorflow, Keras, OpenCV, Numpy, Pandas, Matplotlib

Technology: Git, Maven, Flask, Tomcat, GCP, Heroku

ACHIEVEMENTS

- **Udacity-Suse Scholarship:** Cloud Native Foundations Course
- **Hackathons** Winner at Double-slash and FrostHack 1.0 | Mentor at HTM 2.0
- **Winter of Code 1.0:** Overall Winner out of 50 teams and 100+ students
- **30 Days of Google Cloud:** Skill Badges

POSITION OF RESPONSIBILITY

Student Representative (Tech): Elected by the Student body in College (2019)

Management Lead: Google Developers Student Club, IIIT Kalyani

Founding Member: Entrepreneurship Cell, IIIT Kalyani