Akshita Dixit

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WORK EXPERIENCE

DAYNIL SOLUTIONS PVT. LTD. | Software Development Intern   Remote | June 2021 – Present

- Currently interning as a **Java** Backend Developer
- Working with **Hibernate**, **Maven**, **SpringBoot** and databases like **MySQL** and **PostgreSQL**

SUMMER RESEARCH INTERN | Dr. Sanjoy Pratihar   IIIT Kalyani | May 2021 - Present

- Implementation of **Isothetic 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

MEDICARE-PRIME   Python, Tensorflow, Keras, Flask 2.0, 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 to retain privacy. Uses facial landmark detection algorithm from Dlib module and Helen Dataset to sketch out the outline and communicates via sockets. 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)

STRUCTUREX   Data Structures and Algorithms, Vanilla JavaScript, CSS, HTML
A webapp written purely in HTML, CSS and JavaScript that includes stack, queue, linked-list and tree implementations along with sorting, searching, path finding and graph algorithms. Deployed on GitHub pages.

SKILLS

Languages: Java, Python, JavaScript, C, SQL, HTML, CSS
Development: Git, Vim, Maven, Hibernate, MySQL, PostgreSQL, Flask, Tomcat, Google Cloud Platform, Heroku
Machine Learning: Tensorflow, Keras, OpenCV, Numpy, Pandas, Matplotlib

ACHIEVEMENTS

- **Udacity-Suse Scholarship:** Cloud Native Foundations Course
- **Frost Hack 1.0:** One of the Top 15 teams in the Education category
- **Winter of Code 1.o:** 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)
Mentor: Hack The Mountains 2.0