Shubham Sahu

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WORK EXPERIENCE

WYR.AI New Delhi
Software Development Intern January 2024 – Present
- Developed a mixed reality app using the Unity game engine for Meta Quest 3 that features passthrough mode and hand-tracking to make the app more accessible for the user to use.
- Added hand gesture identification and voice commands to enhance the user experience. Implemented a feature that would enable the user to measure objects using hand-tracking.
- Made a user-friendly UI for the user to log in. Implemented a virtual keyboard inside the app for the user to send feedback. Also implemented voice typing to make the process faster and easier.

SAMSUNG RESEARCH INSTITUTE BANGALORE Remote
Research Intern September 2022 – June 2023
- Conducted in-depth research on neural network architectures that are feasible to be deployed for mobile.
- Implemented an Image Classification application in react native to test the performance of different neural networks.
- Curated a dataset of about 200 images and annotated it in various formats (VOC, VGG) for object detection and increased the size of dataset to 5000 images by applying various data augmentation techniques.

EDUCATION

Thapar Institute of Engineering Technology, Patiala, India September 2020 – June 2024
Bachelor of Engineering (BE) - Computer Science and Engineering
- Current **CGPA – 8.42**

Delhi Public School Mathura Road, New Delhi, India April 2012 - April 2020
Science (PCM with P.E)
- **Class 12**(pass out 2020): **91.6%** **Class 12(**PCM): **95%** **Class 10**(pass out 2018): **92.5%**

PROJECTS

PLANT SENSE | LINK
- A plant disease identification app in flutter. Added a feature that allows user to select image via camera or gallery and send the image to an image classification API.
- Implemented the API in flask that returns the classification results back to the user.
- Displayed the soil moisture content in the app by getting data from the moisture sensor.

TASK OPTIMIZATION USING MULTI THREADING | LINK
- Applied multithreading in a program in python that converts images to greyscale that reduced the time taken by the program by 92.4% (2571.6 sec to 195.3 sec) for 30000 images.
- Made a multithreaded program in Python and C++ that copies files from one folder to another and compared the time taken by different languages.

SKILLS

- **Front End**: HTML, CSS, JavaScript
- **Backend**: Flask, SQL, PostgreSQL
- **Frameworks:** Flutter, React Native, Unity
- **Languages:** C, C++, C#, Python, Dart

ACHIEVEMENTS

- Achieved a rank of 321 in round 1 and a rank of 267 in round 2 of TCS CodeVita 2023.
- Achieved rank of 212 in Innovate India Coding Championship 2022 organized by AICTE out of 90,000 participants.
- Achieved Leetcode max rating of 1853.
- Received scholar badge for scoring 90% or more for five consecutive years in high school.