SIDDHARTH ANAND SRIVASTAV

Software Developer

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EDUCATION

B. Tech in Electronics Engineering

IIT-BHU, Varanasi August 2019 - May 2023

WORK EXPERIENCE

Software Development Intern at Acadza Innovations Pvt. Ltd

September 2020-October 2020 Work From Home

- Worked on the backend of an android application for this EdTech Startup.
- Developed algorithm to recognise text from printed questions papers and hence extract questions and answer key. Used image processing techniques and OCR for the same.

Software Developer at TeKrishi

May 2020 - Present Ayodhya , India

- **TeKrishi** is an early stage startup incubated in CIE, IIIT Hyderabsd. It is an Android application for the farmers currently running in **Ayodhya,India**. It provides rental farming machinery through service providers registered through the application.
- Worked with the team to develop the android application, worked on the backend to integrate firebase database and helped in the UI design of the app.

SKILLS

C++, C, Python, Data Structures
Tensorflow, Java, OpenCV, Firebase
Machine Learning, Android
Kotlin, Git

RELEVANT COURSEWORK

- Data Structures and Algorithms
- C Programming
- Deep Learning in Computer Vision
- Android App Development in Java

EXTRACURRICULAR

- Active Member of Robotics Club , IIT-BHU
- Design Coordinator of Departmental Fest UDYAM, IIT-BHU

PROJECTS

TRY-IT A Virtual Dressing Room

Java, OpenCV, Tensorflow, Python Flask, Selenium

- Android Application for trying various outfits.Estimates key body features during camera preview.The outfit is placed on screen by calculating its size and position using estimated features. Contains features like sharing outfits directly from online stores. Implemented API in Flask to return scraped image to the application for previewing.

Handwritten Hindi Word Recogniser

Computer Vision, Opencv, CNN

- This aims at classifying handwritten devanagri letters into 36 classes. The dataset consisted of 61200 32X32 images. The CNN model has been currently trained only for the consonants, vowels can also be added. Takes an input image of the handwritten words and predicts the text.

Credit Card Number-Reader

OpenCV, Keras, LeNet CNN

- Includes data-set creation using augmentation,training the model,extracting credit card using Canny and identifying the digits using the Model created.

Driver Drowsiness Detection

OpenCV, facial landmark detector

- A computer vision system that can automatically detect driver drowsiness in a real-time video stream and then play an alarm if the driver appears to be drowsy.Eye Aspect Ratio is calculated using facial landmarks to check for drowsiness.

LearnToCODE Android App

Java, gradle, YoutubeAPI, Retrofit

- Android application (using YoutubePlayerView) that lists out the playlists from popular youtube channels like Google Developer India, Flutter, Tensorflow etc. for the learners to help them find it easily at a single place.

Mandalorian Game in python CLI

OOPS, Python

- A fun game written in python where you dodge obstacles, collect coins, use sheilds and powerups, and later in game to finally defeat a mighty flame throwing dragon.

ACHIEVEMENTS

- **Programming :**
  - **Codeforces: SidAnand**,Rating: Specialist (1403 max)
  - **Hash Code 2021:** Qualification Round Rank : 5633
- **Pre-finalists at Flipkart GRID 2.0 Robotics Challenge**
- **Winner of Intel AI Mini Challenge at 20/20VisionHacks organised on Hackerearth**
- **Successfully completed the problem statement of E-Yantra Robotics Competition 2021**
- **JEE 2019:**AIR 4109(Mains) and AIR 2935(Adv.)