Abhinav Jagan Polimera

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Education

Birla Institute of Science and Technology, Pilani - Hyderabad Campus   **2020-2024**

- B.E Computer Science - 8.19/10 CGPA
- **Courses**: Data Structures & Algorithms, Object Oriented Programming, Operating systems, Database Management Systems, Artificial Intelligence, Machine Learning, Blockchain Technology, Computer Networks, Computer Architecture, Internet of Things, Computer Graphics

Work Experience

Cisco, Banglore   **Jan 2024 - June 2024**

Technical Intern, Distributed Systems organization   *On-site*

- Optimizing the test cases used for testing features, specifically involving healthcheck and file transfer in the OS of a router.
- I was responsible for the end-to-end testing lifecycle, which involved developing a comprehensive test plan, creating an automation design document, automating test cases using Python, and filing bugs based on their severity. The feature I tested pertained to VRF configuration support using Open-Config within the domain of Network Time Protocol (NTP).

Shris Infotech, Hyderabad   **Jun 2022 - Jul 2022**

Software Intern   *Remote*

- Developed a face recognition app, transforming contact organization with a user-friendly app, making calling as easy as a single click on someone's face.
- **Technologies used** : Python libraries - deepface, OpenCV, retina-face, Flutter, Dart

Projects

Playlistify - web development   **-**

- Developed a web application, seamlessly converting Spotify's liked songs into personalized playlists, enhancing user accessibility to favorite music collections while streamlining the creation process for easy access.
- Technologies used: Python, flask, Spotify web API

Event Scheduler - Object Oriented Programming   **-**

- Implemented the backend of an event scheduler with multi-user login capabilities, enabling seamless appointment scheduling among users. The dashboard offers a calendar view with daily, weekly, and monthly options for easy navigation.
- Spring Boot, MySQL, JDBC, Java, HTML

Remote Drone surveillance- Machine learning/ image processing   **Publication Link**

- Aims at preventing security threats at remote locations with the use of drones and machine learning algorithms. The technologies used include OpenCV , image processing libraries and object detection algorithms(YOLO).
- Various object detection algorithms having been analysed. After detecting the various objects in a frame, threshold values have been set to classify an activity as illegal based on time and count of number of classes present.

Performance Assessment of Neural Radiance Fields and Photogrammetry   **Publication Link**

- Worked on comparing one of the latest 3D model reconstruction algorithms (Neural Radiance Fields) to the most used algorithm(Photogrammetry) in this domain for 3D Reconstruction of Man-Made and Natural features.
- Analysis involved an in-depth understanding of Neural Radiance Fields,neural networks and volumetric rendering. Photogrammetry which works on the principle of image stitching and other CV concepts

Technical Skills

Languages: Python3 , C++, Java, JavaScript
Backend: Spring Boot, SQLDatabase
Frontend: React,HTML, CSSFlask, HTML, CSS
Others :Adobe Illustrator, Adobe Photoshop

Extra Curricular Activities

- **Photography :**   Self-taught photographer skilled in Adobe Lightroom , Adobe Photoshop, and Google Snapseed. Actively involved in college photography club

- **CBSE-southzone chess tournament :**   represented my School in the CBSEsouth-zone cluster and won three out of six matches.