**Manideep Thalla**

| Auburn Hills, MI| manideepthalla@oakland.edu | (947)-276-3104 |

**EDUCATION**

**Oakland University Rochester HIlls, Michigan**

*B.S in Computer Science Expected Graduation, May 2028*

* Concentrations: Intelligence
* Related Coursework**:** Computer Organization & Programming, Combinatorics, Artificial Intelligence, Object-Oriented

Programming, Statistics & Applications, Intro to Computer Networks

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| **SR Junior College | High School |** | **Hyderabad, India** |
| **A-Levels**  ● Subjects: Maths (A), Physics (A), Chemistry (A), English (B) | *Jun2021–Mar2023* |
| **Ekashila Techno School | Secondary High School |** | **Hyderabad, India** |
| ● Subjects: English, Hindi, Telugu, Maths, Physics, Chemistry, Social science  **EXPERIENCE ACADEMICS**  **Projects** | *Jun2016–May2021* |
| **● Weather app with API integration** | *Sep 2024 – Oct 2024* |

Built a weather app using OpenWeatherMap API to display real-time weather data (temperature, humidity, forecast). Integrated a clean Ul with dynamic API response handling and error management. Developed with [programming language/framework and UI/UX design].

* **Mad Libs Game using Python** *Sep 2024 – Oct 2024*

Created an interactive Mad Libs game using Python, allowing users to input words and generate fun stories. Utilized string formatting and user input handling for dynamic story generation.

* **Generic Cognitive Spell Checker (eVimal)** *Mar 2024 – May 2024*

The project was to build a language independent spell checker that works on the three cognitive processes involved in the process of linguistic communication i.e. acoustic, visual and kinesthetic.

* **Handwritten Digit Recognition**

Built a neural network using TensorFlow to classify handwritten digits from the MNIST dataset. Achieved 98% accuracy by optimizing model parameters and applying data augmentation techniques. Additionally, visualized the model's performance through confusion matrices and accuracy/loss graphs to highlight its effectiveness.

* **Object Detection and Tracking**

Developed a real-time object detection and tracking system using YOLOv4 and OpenCV. The system effectively detected and tracked multiple objects in video streams with high precision and integrated Kalman filters for smooth object tracking across frames, ensuring accurate and consistent results.

* **Tuition Teacher** Mar 2023 *– Apr 2024*

Tutored students in Mathematics and Science, improving their grades by an average of 25%.

Developed personalized lesson plans and assessed student progress.

Maintained regular communication with parents about student performance**.**

**ACTIVITIES AND LEADERSHIP**

# Experimental Research

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| ● Developed and implemented experimental designs for science projects, enhancing | **Hyderabad,India** |
| practical understanding of scientific methods. | Mar 2024 *– Ju2024* |
| **Deputy Head Boy at SR Junior College | High School |** | **Hyderabad, India** |
| ● Collaborated with peers to promote student engagement and participation in  extracurricular activities | *Jun 2022 – Mar 2023* |
| **Winner of ‘Under 19 volleyball 2019 at Ekashila Techno School** | **Hyderabad,India** |
| ● Led the team to victory in the Under 19 Volleyball Tournament, demonstrating teamwork and sportsmanship. | *Jan 2019* |
| **Indian Student Association** | **Rochester Hills, Michigan** |
| *Assistant President* | *Aug 2024 – Current* |

● Leader of an organization of 100+ members, hosting religious events, managing a board of executives, and reaching out to the underprivileged community in Michigan

# SKILLS

**Programming:** Python, C, Swift (iOS), HTML, SQL, CSQL

**Tools:** Android Studio, IntelliJ, AWS,Git, Bootstrap, TensorFlow, Keras, NumPy, Matplotlib, YOLOv4, OpenCV

**Microsoft Office:** Proficient in Word, Excel and PowerPoint