

# MD WAHEED PASHA

Ó +91 6302881566 mohmmadshaikwaheed@gmail.com mohdwaheed

## EDUCATION

|  |                                |
|--|--------------------------------|
| Anurag University                      | October 2023 - Present [II-II] |
| Informational Technology - CGPA - 7.73 | B.Tech.                        |
| Rishi Junior College                   | August 2021 - June 2023        |
| Intermediate - Percentage - 89.1%      | TSBIE                          |
| Kothakota Pupils School                | June 2020 - July 2021          |
| Secondary School - Percentage - 80%    | CBSE                           |

## TECHNICAL SKILLS

- Programming Languages : Python, C, Java, HTML, CSS
- ML/Deep Learning : TensorFlow, LLMs, GenAI
- Hardware Platforms : Arduino
- Pi Tools : Git, Flutter
- Operating Systems : Windows, Linux, macOS

## PROJECTS

|   |                     |
|---|---------------------|
| Chess AI using Reinforcement Learning   | Feb 2025 – Mar 2025 |
| Tools: Python, TensorFlow, Reinforcement Learning algorithms, OpenAI Gym (Chess Environment)  |                     |
| <ul style="list-style-type: none"><li>Implemented policy gradient methods to optimize decision-making, achieving noticeable improvement in mid-game evaluations.</li><li>Created training pipelines with self-play loops, ensuring consistent learning without external datasets.</li><li>Applied reward-based tuning to analyze behavior under varying board states and learning thresholds.</li></ul>   |                     |
| YouTube Content Detection using AI  | Jan 2025            |
| Tools: python, Flask, JavaScript, Chrome Extension APIs, Whisper AI, YOLO, Google Gemini, HTML/CSS  |                     |
| <ul style="list-style-type: none"><li>Developed a Chrome extension to detect 18+ content on YouTube using multimodal analysis of audio, video, and metadata.</li><li>Integrated Whisper AI for multilingual audio transcription and Gemini for content classification based on titles, descriptions, and captions.</li><li>Employed YOLO for visual content detection and enforced a popup mechanism to warn users when unsafe content is detected.</li><li>Implemented a Flask backend to handle AI inference, with seamless communication between the extension and server.</li></ul> |                     |
| Fashion MNIST Image Classifier  | Dec 2024            |
| Tools: Python, NumPy, TensorFlow  |                     |
| <ul style="list-style-type: none"><li>Developed a dense neural network to classify grayscale fashion images with basic preprocessing.</li><li>Implemented multiple hidden layers to improve feature learning, processing thousands of training images.</li><li>Created an interpretable pipeline for learning model behavior and weaknesses.</li><li>Developed code with modular structure for easy integration into broader AI testing frameworks.</li></ul>   |                     |

## **E-Commerce Platform using Java Swing**

*Mar 2025*

*Tools: Java, Java Swing, OOP, IntelliJ IDEA, Git, MVC Architecture*

- Developed a desktop-based E-Commerce application enabling users to browse products, manage shopping carts, and place orders via an intuitive Java Swing GUI.
- Implemented dynamic inventory tracking and automated cart validation to prevent out-of-stock errors and enhance transaction accuracy.
- Designed a modular MVC architecture supporting future integrations such as MySQL databases, payment gateways, and cloud deployment.
- Enabled real-time stock updates, order history management, and GUI-driven workflows to streamline online shopping experiences.

## **CERTIFICATIONS**

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### **AI Foundations**

*Apr 2025*

*HP LIFE*

### **Object Oriented programming using python**

*mar 2025*

*Infosys spring board*