

ADITHKUMAR ETIKYALA

 9491012629

 adith2605@gmail.com

 <https://www.linkedin.com/in/adithkumar-e-296086278/>

 <https://github.com/AdithkumarEtikyala>

Career Objective

Innovative AI & ML enthusiast with a knack for transforming raw data into intelligent solutions. Skilled in Python, TensorFlow, and machine learning, eager to push the boundaries of AI-driven innovation and make a meaningful impact in the tech world.

Education

B-Tech in Artificial Intelligence & Machine Learning

Malla Reddy University, Hyderabad | *Expected Graduation: 2027*

Technical Skills

- Programming Languages:** Python, Java
 - Front-End Development:** HTML5, CSS, JavaScript, ReactJS
 - Mobile Application development:** Android Studio, Flutter
 - AI/ML Frameworks:** TensorFlow, PyTorch, Scikit-learn
 - Database Management:** MySQL, MongoDB
 - Tools & Technologies:** OpenCV, Docker, Git, AWS
-

Academic Projects

Hawk'Eye: AI-Powered Object Detection System

- Developed an advanced surveillance system with real-time object detection capabilities.
- Integrated audio output for identified objects to enhance situational awareness.
- Technologies Used: Python, OpenCV, YOLO
Outcome: Successfully improved object detection accuracy for real-time applications.

Helmet Detection App

- Designed an AI-powered application to enforce safety helmet compliance in workplaces.
- Captured images of non-compliant individuals for further analysis.
- Technologies Used: TensorFlow, Flask, React
- Outcome: Enhanced workplace safety by automating helmet compliance monitoring.

Fake Bill Detection

- Created a currency authentication system using computer vision techniques.
- Utilized convolutional neural networks to distinguish between genuine and counterfeit bills.
- Technologies Used: Python, CNN, Django
- Outcome: Provided a reliable method to detect fake bills with visual and statistical validation.

Soil Moisture Analysis

- Developed a machine learning model for precision irrigation control in smart farming.
- Enabled real-time soil moisture monitoring to optimize water usage.
- Technologies Used: Machine Learning, TensorFlow Lite, Python
- Outcome: Improved agricultural efficiency through data-driven irrigation practices.

Crop Yield Prediction

- Implemented time-series forecasting models to predict agricultural outputs.
- Analyzed historical data to provide actionable insights for farmers.
- Technologies Used: Python, Scikit-learn, Pandas
- Outcome: Assisted in strategic planning by accurately forecasting crop yields.

Crop Disease Detection

- Built an image classification system to identify plant diseases.
- Leveraged computer vision to detect early signs of crop pathology.
- Technologies Used: Python, TensorFlow, OpenCV
- Outcome: Enabled timely intervention to prevent the spread of crop diseases.

AI Chatbot with Gemini API

- Developed an intelligent conversational agent powered by Google's Gemini API.
- Facilitated interactive user experiences through natural language processing.
- Technologies Used: JavaScript, Gemini API, Node.js
- Outcome: Enhanced user engagement by providing real-time, AI-driven interactions.

Certifications

- **Machine Learning with Python** – Coursera
 - **Deep Learning Specialization** – edX
 - **Microsoft Azure**
 - **Mastering Applied-ExcelR**
-

Achievements & Extracurricular Activities

- **Hackathon Goal:** Secured 20th place in Hackathon by **BITS HYDERABAD** for developing **Hawk'eye**.
- **Coding Competitions:** Participated in **CodeChef**, **LeetCode**, and **Kaggle** challenges.
- **Leadership:** Served as **Team lead** in Idea-creation and application development at Malla reddy university and Hackathon BITS HYD.