Nikhil Reddy Yerragondu

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EDUCATION

University of Alabama at Birmingham, Alabama — Jan 2024 - May 2025
Master of Science in Computer Science

Aug 2019 – Jun 2023
Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India
Bachelor of Technology in Computer Science and Engineering (CGPA: - 3.427 / 4.0)

TECHNICAL SKILLS

- **Programming Languages**: Python, HTML, CSS, PostgreSQL, JavaScript
- **Developer Tools**: VS Code, Google Colab, Jupyter Notebook, Github
- **Technologies/Frameworks**: Tensorflow, Pytorch, Flask, Node.js, React.js

WORK EXPERIENCE

PanTech Solutions | Machine Learning Intern — June 2022-July 2022
- Basic concepts related to Machine Learning, and Artificial Intelligence
- Closer look at several ML and AI Algorithms and Projects.
- In the end, I am familiar with basic concepts of ML and AI and appreciate how they are being used in our real world scenarios.

ACADEMIC PROJECTS

Human Activity Recognition | Python, Detectron2, LSTM | — Aug 2021-Nov 2021
- This project aims to recognize Human Activity using a combination of Detectron2 and LSTM.
- By analyzing the motion of objects in the input, the system can identify specific actions being performed by humans.

Image Based Search Engine | Python, TensorFlow, Keras, Flask | — Dec 2021- Mar 2022
- This project is an image-based search engine that utilizes VGG16 to provide search results from a given dataset.
- The system compares the features of input images with the dataset to retrieve and display the most similar images as search results.

Proposed Facial Detection Model using CNN | Python, MesoNet, MesoInception4 | — Aug 2022- Nov 2022
- This project proposes a facial detection model that utilizes CNN pre-trained weights and models, specifically MesoNet & MesoInception4, to detect whether a video is forged or not.
- By analyzing facial features and movements, the system can identify signs of tampering or manipulation in the video.

Video Forgery Detection using CNN & RNN | Python, CNN, RNN | — Dec 2022- April 2023
- This project aims to detect video forgery by utilizing a hybrid architecture of CNN and RNN.
- By analyzing various features of the video, the system can determine whether the video is real or fake, thus detecting any potential forgeries.

Portfolio Website using EC2 | JavaScript, HTML, CSS, AWS | — February 2023
- The aim of the portfolio website project is to create a personal or professional website to showcase your work, skills, and achievements using HTML, CSS, and JavaScript.
- Hosting the website on an EC2 instance in AWS provides scalability, security, and flexibility for the website.

ACHIEVEMENTS

- Received an Appreciation Certificate from ISPEC 8th International Conference & ICLTEM 4th International Conference.
- Received Course Completion Certificates from SoloLearn, Coursera, Udemy, Udacity.