R. RITHVIK JONAH WILLIAMS

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Education

Chaitanya Bharathi Institute of Technology Nov.2022 -Aug.2026

B.Tech in Artificial Intelligence and Machine Learning *9.19 CGPA*

Projects

Online Bookshop Application —Python,Flask,Jinja2,Bootstrap,Javascript,SQLite **Source Code**

- User Authentication: Developed secure user authentication, including login, registration, and session management using Flask
- User Profile Management: Enabled users to view and edit their profile information from a dashboard.
- Cart Management: Created a robust cart system allowing users to add, update, and remove items, with real-time updates to the cart contents.
- Search Functionality: Implemented a search bar using JavaScript, jQuery, and AJAX to allow users to search for book titles
- Order Processing: Built a checkout process with dummy payment processing, ensuring users could place orders and receive confirmation.
- Order History: Allowed users to view their order history, including details of individual orders.
- Deployed Project Link: Online Bookshop Application

Deepfake Detection Application —Python, TensorFlow, OpenCV, sklearn, MesoNet, XceptionNet, VIT **Source Code**

- Preprocessing: Converted videos to frames, resized images, and normalized input data.
- Feature Extraction: Extracted multi-layer deep features from MesoNet, XceptionNet, and Vision Transformer models.
- Feature Fusion: Concatenated extracted features into a unified feature vector.
- Classification: Trained a Random Forest classifier on the fused feature vectors for binary classification (Real/Fake).
- Flask Web Application: Developed a basic Flask-based mock social media website.
- User Authentication: Implemented user registration and login functionality.
- Content Posting: Allowed users to upload photos and videos.
- Deepfake Detection Integration: Prevented the posting of detected deepfake content while allowing genuine content to be shared.

Bank Application —Mongo DB, Express JS, React JS, Node JS **Source Code**

- User Registration and Authentication: Secure signup and login system.
- Bank Account Creation: Users can create a banking account within the app
- Savings Management: A dedicated savings page where users can set savings goals and deposit money toward them.
- Money Transfers: A transactions page that enables users to send money from one account to another using an account number.
- Current Status: This project is still in development, with additional features and improvements in progress.

Technical Skills

Languages: Python
Libraries: Keras,SciKit-Learn,Numpy,Pandas,Matplotlib,cv2,os, React JS
Frameworks: React JS, Express JS
Programming: Data Structures ,Algorithms,OOPS
Developer Tools: GitHub, VSCode
Relevant courses completed:Web Development(Internshala), AI Foundation and Advanced(ISB),Machine Learning Foundation(ISB), Machine Learning(Udemy)