ADITYA KUMAR SINGH

Vijayawada • +91-9785750064 • adityakumarsinghczm1009@gmail.com

EDUCATION

VIT-AP University   **2022-2026**
B.Tech in Computer Science Engineering │ 8.4/10

CBSE Class 12th Board │ 79%   April 2021
CBSE Class 10th Board │ 94%   April 2019

PROJECTS

Music Playlist Simulator │ *Data Structures & Algorithms, OOPs, Java*   **Spring 2024**

- Developed a console-based music player simulation application using Java, designed to emulate core functionalities of a music player.
- Implemented CRUD operations on playlists from predefined albums collections, facilitating a dynamic music experience. Integrated features for playing songs, navigating through the playlist, and controlling playback options such as skipping to the next or previous song, replaying the current track, and removing songs from the playlist.
- Ensured efficient code performance and maintainability through effective use of Java programming constructs and object-oriented design principles

Movie Database Application │ *Swift, REST API, MVVM, SwiftUI*   **Summer 2024**

- Delivered a feature-rich movie browsing app with smooth navigation, comprehensive movie details, and intuitive search functionality.
- It features dynamic movie listings, detailed movie views, and a robust search functionality, providing a seamless and interactive experience.
- Utilized Swift's *'async/await'* for fetching data asynchronously from the TMDb API, ensuring smooth and responsive user interactions without blocking the main thread.
- Implemented *'ObservableObject'* for real-time data updates and interaction with SwiftUI views.

Pedestrian Detection from Drone View │ *OpenCV, TensorFlow, Pytorch*   **April - June 2024**

- Developed an advanced computer vision model for drones to enhance surveillance and public safety capabilities.
- Utilized advanced deep learning techniques, including Convolutional Neural Networks (CNNs), to develop and optimize models for accurate object detection and tracking.
- Employed state-of-the-art techniques such as YOLO (You Only Look Once) and SSD (Single Shot MultiBox Detector) for object detection and utilized TensorFlow and PyTorch for model development and training.

Netflix Data Analysis │ *Numpy, Pandas, TextBlob*   **July - August 2024**

- Executed a comprehensive data analysis project focused on Netflix's streaming service to gain actionable insights into viewing habits, content performance, and user engagement.
- Analyzed performance metrics of various shows and movies, including top director and actor statistics, ratings, and sentiment analysis to identify high-performing and underperforming content.

SKILLS

Languages - Java, Python, Swift, R, SQL
Developer Tools - VS Code, Google Colab, Xcode, Figma, Git, MySQL
Framework & Libraries - Tensorflow, Pytorch, Numpy, Pandas, OpenCV, Firebase
Soft Skills - Problem Solving, Communication, Critical Thinking, Teamwork, Adaptibility, Time Management

RELEVANT COURSEWORK

DSA │ Computer Networks │ Software Engineering │ Database Management Systems │ Statistics & Probability │ Linear Algebra │ Discrete Maths │ Computer Organisation & Architecture │ OOPs │ Operating Systems │ Machine Learning │ Aptitude