RAHUL R

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EDUCATION

APJ Abdul Kalam Technological University of Kerala — September 2019 - June 2023
BTech in Computer Science and Engineering - CGPA - 7.4 — *GEC Wayanad*

- Data Structures & Algorithms
- Database Management System (DBMS)
- OOPS Concepts

Kendriya Vidyalaya No 2, Kochi — April 2018 - March 2019
12th - 77%

Kendriya Vidyalaya No 2, Kochi — April 2016 - March 2017
10th - 91.9%

TECHNICAL SKILLS

Languages: C++, C, SQL, Javascript, Flutter
Technologies: Machine Learning (Scikit-Learn, TensorFlow), GitHub, Gitlab, jQuery
Soft Skills: Strategic planning, Analytical thinking, Problem-solving, Teamplayer, Flexible

PROJECTS

Destination | React, Redux

- Developed a responsive front page for an e-commerce website, implementing a dynamic shopping cart feature using React and Redux for state management.
- Integrated product listing and navigation components with Bootstrap and Font Awesome for UI styling and ensured state persistence with Redux for smooth user interactions

Emotion Detection of Autistic Children | Flutter, Firebase, Tensor Flow

- Designed and developed a mobile application to detect emotions in autistic children using a cutting-edge Convolutional Neural Network (CNN) model, enhancing timely emotional support.
- Created and maintained a secure backend using Firebase, with Firebase Authentication ensuring a safe and streamlined user experience for caregivers and parents.
- Captured facial expressions in real-time, seamlessly transmitting them to Firebase Storage for emotion detection using the CNN model, which analyzed emotions such as stress, happiness, and sadness.
- Integrated a notification system that immediately alerted caregivers when the system detected distress, allowing for prompt intervention and care.

ChatPDF | Python, Streamlit, FAISS, LangChain

- Built an interactive application to query PDF documents conversationally using natural language processing.
- Implemented efficient text extraction and chunking, paired with FAISS for high-speed semantic search.
- Integrated OpenAI and HuggingFace models to deliver accurate, context-aware conversational responses.
- Developed a sleek, user-friendly Streamlit interface for seamless real-time interaction with documents.

Kaggle Titanic Survival Prediction | Python, Scikit-Learn

- Participated in Kaggle's Titanic - Machine Learning from Disaster competition.
- Built a Random Forest Classifier to predict passenger survival based on features like Pclass, Sex, SibSp, and Parch.
- Preprocessed data using Pandas, engineered features, and converted categorical data into numerical format using pd.get_dummies.
- Developed hands-on experience with data cleaning, feature engineering, and model evaluation.

Store App | Flutter, Firebase

- Developed a store management solution tailored for efficient student data handling and transaction management, aimed at streamlining operations for store managers.
- Implemented a barcode scanning feature to instantly retrieve student information using admission numbers, reducing time and errors associated with manual input.
- Automated the deduction of purchase amounts from student accounts, allowing for smooth and real-time transaction processing, enhancing operational efficiency.

ACHIEVEMENTS

- Presented a paper in International Conference on Intelligence Technologies in CSE (ITCES)
- Obtained first prize for Tech Quiz conducted by Government Engineering College Wayanad

CERTIFICATIONS

- Mastering C and C++ Programming: From Fundamentals to Advanced
- Foundations of UI & UX by Google
- Web development-Zero to Hero
- Hands On React JS From Beginner to Expert
- MySql Bootcamp - Udemy