TEJAS S

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About-me

I am a passionate and self-driven Computer Science graduate with a strong interest in Python Full Stack Development. I have developed responsive web-pages and deep learning projects, showcasing my ability to blend design and functionality. I'm eager to join an innovative team where I can learn and contribute meaningfully as a developer.

Education

M S RAMAIAH UNIVERSITY OF APPLIED SCIENCES, B.Tech in CSE Jan 2022 - Jun 2024
CGPA : 7.05

P V P POLYTECHNIC, Diploma in ISE July 2018 - Nov 2021
Percentage : 73%

NARAYANA P U College June 2016 - May 2018
Percentage : 61%

SRI AUROBINDO VIDYA MANDIR SCHOOL , SSLC May-2016
Percentage : 69.60%

Projects

Arecanut Status Detection Using Deep Learning. Jan 2024 - May 2024

- Developed a real-time, cost-effective system using TensorFlow Lite and Raspberry Pi that accurately classifies arecanut into ripe, unripe, and dry categories, enabling farmers to make timely harvesting decisions.
- Integrated advanced Convolutional Neural Networks(CNN's) with OpenCV and Pi Camera modules to automate image capture and ripeness detection, improving accuracy and reducing manual labor.
- Evaluated and compared traditional machine learning (SVM) and deep learning models, demonstrating that deep learning techniques outperform classical methods in both accuracy and field applicability under diverse agricultural conditions.

Intelligent Chess Coaching System. Sept 2023 - Dec 2023

- **B**uilt a web-based chess interface integrated with a **Logistic Regression model** to evaluate player moves and classify them into skill levels ranging from "Very Not Good" to "Very Good."
- Trained the model to classify chess moves from "Very Not Good" to "Very Good" based on key game features like checkmate and material gain.
- Developed a clean and interactive web application to allow users to play chess and receive real-time feedback on move quality.
- Collected and preprocessed a dataset containing player moves and outcomes to train the machine learning model for skill-level classification.
- Applied machine learning to deliver strategic recommendations, helping users improve decision-making and overall gameplay.

Technical Skills

Python

- **P**roficient in Python syntax and semantics, including variables, data types, control flow (if/else, loops), functions, modules, and error handling.
- **S**olid understanding of classes, objects, and OOP's principles such as abstraction, encapsulation, inheritance, and polymorphism to design reusable and maintainable code structures.

- **S**killed with higher-order functions and functional programming tools like lambda expressions,map,reduce,filter as well as list, dictionary, set and generator, comprehensions for concise and efficient data processing.

Django

- **D**eveloped web applications using Django framework with Model-View-Template (MVT) architecture, ensuring clean and modular code.
- **I**mplemented CRUD operations, user authentication, and database integration using Django ORM for efficient data management.
- **C**reated dynamic web pages and integrated HTML, CSS, and JavaScript with Django templates to deliver interactive user experiences.

SQL

- Modeled relational databases by defining tables, primary keys, and foreign keys to ensure data integrity and reduce redundancy.
- Normalized database schema's to Third Normal Form (3NF), eliminating data anomalies and improving query efficiency.
- Queried multi-table datasets using SELECT statements with WHERE, GROUP BY, and ORDER BY clauses to generate actionable business insights.
- Joined disparate tables via INNER, LEFT, and FULL OUTER JOINS to consolidate data and support comprehensive reporting.

DATA STRUCTURES

- Implemented core data structures like arrays, stacks, queues, linked lists to build efficient coding solutions.
- Applied data structures to improve efficiency in searching, sorting, and managing data.
- Developed problem-solving skills by practicing tree, graph, and hashing concepts.

REST API

- Developed RESTful APIs to enable seamless data communication between client and server.
- Implemented CRUD operations like GET, POST, PUT, PATCH, DELETE using REST architecture.
- Developed problem-solving skills by practicing tree, graph, and hashing concepts.

Web Development

- Developed responsive web applications by leveraging **React.js** components, ensuring dynamic user interfaces and seamless client-side rendering.
- Integrated RESTful APIs and optimized data handling to enhance application performance and deliver real-time functionality.
- Implemented reusable UI components using **React with modern JavaScript (ES6+)**, improving maintainability and reducing development time.
- Collaborated with cross-functional teams to deploy web solutions, applying best practices in HTML, CSS, and modern frameworks for a mobile-first approach.

Publications & Certifications

INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN ADVANCED ENGINEERING: Arecanut Status Detection Using Deep Learning. May-2024

RAMAIAH HACKATHON: Intelligent Chess Coaching System in IIC Ramaiah University. Nov-2023