Santhosh Reddy Kommula

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Professional Summary

Highly Motivated Professional with a Master's in Computer Systems and 3 years of experience in customer support specialist. Recently transitioned into IT with hands-on-experience in developing full stack web applications and data science projects. Proficient in Python, Django, React, and Machine Learning technologies. Seeking to contribute to innovative software development and data-driven projects in a dynamic organization.

Project Experience

Real-Time Chat Application

Technology: Python, Django, JavaScript, MySQL.

Project Description:

This Project is Real-time chat application developed using Django as core backend framework. It enables users to communicate with each other through direct messaging in a secure and user-friendly environment.

- Users can send and receive real-tie messages in private conversations.
- Implemented creating and joining chat rooms with multiple participants.
- Persistent chat history stored in the database, accessible to users upon login.
- Real-time communication implemented using Django Channels and Web Sockets.

Facturo - Restaurant Management System

Technology: Python, Django, Html, CSS, JavaScript, React

Project Description:

Facturo is a restaurant-based web application. This project is a full-stack restaurant web application developed using Django(backend) and React (Frontend). The system is designed to seamless operations by providing an intuitive, responsive platform for both customers and restaurant staff.

- Designed and implemented a responsive user interface using HTML, CSS, Java Script and React.
- Implemented user authentication and authorization using Django built-in authentication system
- Customers can browse the menu. Customize orders and place them in real-time.
- Real-time order tracking like status of the order, updates for both customers and kitchen staff.
- Responsive Admin panel for adding, updating and removing food items and categories.

Insurance Cost Prediction

Technology: NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn

Project Description:

- Developed a machine learning model to predict individual medical insurance costs based on demographic and health-related features.
- Performed extensive data preprocessing, including encoding categorical variables, scaling features, and handling outliers to ensure model robustness.
- Implemented and compared multiple regression models such as Linear Regression, Ridge Regression, and Lasso Regression.
- Conducted hyperparameter tuning and cross-validation to optimize model performance. Evaluated models using MAE, RMSE, and R2 score metrics to select the most accurate model.
- Demonstrated strong skills in predictive analytics, healthcare cost modeling, and real-world data handling.

Rice Leaf Disease Prediction

Technology: Convolutional Neural Networks (CNN), TensorFlow, Pandas

Project Description: This project is a machine learning-based system designed to automatically detect and classify rice leaf diseases using Convolutional Neural Networks (CNNs). The system leverages deep learning techniques to analyze leaf images and identify common rice plant diseases such as Bacterial Leaf Blight, Brown Spot, Leaf Smut

- Image augmentation and preprocessing techniques applied to improve model generalization.
- Model evaluated using metrics such as accuracy, precision, recall, and confusion matrix.
- Developed web app interface where users can upload leaf images and receive instant predictions.

Professional Experience

Company: Euro Live Technology, Riga, Latvia
Role:　　　Customer Support Specialist
Duration: Aug 2021-May 2024

Roles and Responsibilities:

- Resolved customer queries with a high satisfaction rate in a fast-paced tech environment
- Gained Exposure to software tools, user facing tech systems.
- Built strong interpersonal skills and developed a customer-centric approach to problem-solving

Technical Skills

Languages:　　　Python, JavaScript
Framework:　　　Django, React, Django Rest Framework
Databases:　　　MySQL, MongoDB
Libraries & Tools: NumPy, Pandas, Scikit-Learn, TensorFlow
Data Science/ML: CNN, ANN, Regression, Classification Models.
Visualization:　　　Matplotlib, Seaborn, Power BI, Tableau

Education

Qualification	School/College	Board/University	Year of passing
Masters	ISMA University	ISMA, Riga, Latvia	2021
B-Tech	Lords Engineering College	JNTU University, Hyderabad	2014

Declaration

I hereby declare that all the details furnished above are true to the best of my knowledge and I assure you that I will perform my duties to the best of my ability.

Place: Hyderabad, IN   K. SANTHOSH