Dhanush Konduru

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Education

VIT — Vellore
Software Engneering Integrated M Tech

Skills

Programming Languages:	C, C++, Java, Python
Web Development:	HTML, CSS, JavaScript, PHP
Tools / Platforms:	Git, Power BI, Workato
Databases:	SQL, MongoDB, SnowFlake
AI:	Genrative AI

Projects / Open-Source

Video-Encryption-using-Quantum-Cryptography | Link — Java

This research proposes a method to encrypt videos using quantum key distribution (QKD). Unlike traditional encryption, QKD aims to be unbreakable even by quantum computers. The method uses colour information from video frames and quantum measurements to generate encryption keys. Simulations show the method is secure, fast, and exible for processing di erent video parts. However, challenges remain in handling videos with plain backgrounds and securely storing long encryption keys.

Lane Detection In Self Driving Car — OpenCV,Python (NumPy, Pandas, Keras, TensorFlow),CNN

The project focuses on Lane Detection in Self-Driving Cars using computer vision and deep learning techniques. The methodology employs CNN-based models to detect lane boundaries in real time, improving navigation and collision prevention. OpenCV is used for image preprocessing, while sensor fusion techniques integrate data from multiple sensors for enhanced accuracy. The project aims to develop an advanced driver assistance system (ADAS) that ensures safe lane navigation under various road and weather conditions.

E-ComConnect | Link — Django,Pyhton,Html

E-ComConnect is a basic e-commerce platform built using the Django web framework. It allows users to browse products, register and log in to their accounts, and potentially place orders or manage listings.
The project uses a local SQLite database to store user and product information, and features a modular design using Django's app structure.

Smart parking System | Link — Python, Kivy

The project implements a Smart Parking System using IoT technology, where ESP8266 collects real-time parking slot availability data from IR and ultrasonic sensors. The system transmits this data wirelessly to a Python-based GUI developed using Kivy. The GUI visually represents parking slot occupancy and plays an alert sound when a slot is occupied. The project aims to reduce parking search time, improve e ciency, and optimize urban mobility through automation and real-time monitoring.

Tourism Management System using Microsoft Azure — Microsoft Azure,HTML, CSS, PHP, JavaScript

This project presents an innovative cloud-based tourism management platform that rede nes the travel planning experience through personalization and seamless service integration. It allows users to browse, book, and manage tourism services such as tour packages, hotel accommodations, and transportation, all from a single online portal. By deploying the system on Microsoft Azure, the project ensures high availability, scalability, and secure access. The platform focuses on delivering customized travel experiences, e cient resource usage, and real-time updates. Admins can manage users and packages, while users can register, log in, view packages, make bookings, and complete payments online.

Certifications

Python (Basic) - HackerRank
Java (Basic) - HackerRank
Supervised Machine Learning: Regression and Classi cation - Coursera
Hackathon Gen-AI

Honors & Awards

Won 3rd Prize in National level Hackathon on Gen-AI conducted by Nalla Narasimha Reddy Group of Institutions, Hyderabad on 21 Sep 2024

Experience

27-May-2024 - 30-Jun-2024

Python – Intern
Aapoon

- Developed python-based web application by Django and Django rest framework for managing user tasks with OTP (One-Time Password) authentication.