

Gowtham Nukala

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Skills

Technical Skills

Programming Languages: Python, DSA, Flask, JavaScript, HTML, CSS

Databases: MySQL

Tools: Git, Visual Studio Code, MS Excel

Behavioral Skills

- Leadership
- Team Player
- Quick Learner
- Adaptability

Education

Bachelor of Technology in Electronic's and Communication Engineering, 2020 – 2024
Seshadri Rao Gudlavalleru Engineering College, India.
CGPA : 7.0

Intermediate (MPC), Sri Chaitanya Junior College 2018 – 2020
CGPA : 8.3

10 Grade, Sri Chaitanya Techno School 2018
CGPA : 9.2

Certificates

- The Joy Of Computing Using Python - NPTEL (2023)
- Machine Learning and Deep Learning – Google Developer Program (2023)
- AWS Academy Graduate - AWS Academy Machine Learning Foundations

Projects

Enhancing Parkinson's Disease Detection Accuracy Using Vocal Biomarkers 2024 Jan – 2024 Apr

- Authored a paper that detailed innovative techniques applied for improving model precision by 20% when analyzing complex medical datasets associated with Parkinson's disease, published in IRJET.
- Analyzed over 1 million medical records to enhance early detection strategies for Parkinson's disease, producing actionable insights that contributed to improved diagnostic protocols within healthcare settings.
- Conducted comprehensive studies leading up to publication showcasing how optimized feature selection elevated predictive accuracy by processing over 1 million records within existing healthcare datasets relevant for Parkinson's detection.

Smart Attendance System Using Face Recognition

2023 Sep – 2023 Dec

- Developed an Analyzed face recognition system to simplify attendance tracking, reducing manual effort by 80%.
- Built a training database with 100+ faces using Python and OpenCV, ach5% accuracy.
- Automated attendance logging into spreadsheets, improving administrative efficiency by 50%.

IoT-Based Moisture Control System for Plants

2023 Jun – 2023 Dec

- Designed and developed an intelligent soil moisture sensing network that autonomously controls irrigation schedules based on environmental factors, ensuring healthy growth conditions for over 100 indoor plants without user intervention.
- Reduced water usage by 30% through precise moisture level detection.
- Developed a fully implemented watering system utilizing sensor data to determine optimal soil hydration levels; reduced unnecessary water usage by approximately 30% while maintaining the health of diverse plant species.

An Evaluation Of Gold Covering And Plastic Manufacturing(CSP)


2023 Jan – 2023 May

Process and making of gold covering and plastic manufacturing.

Personal Portfolio Website

Delivered an engaging online presence through the creation of a portfolio site featuring interactive elements; garnered feedback from peers leading to streamlined project presentations and increased engagement rates by approximately 30%.

Online Shopping Platform,

Full-Stack Developer | Flask, MySQL, JavaScript, Bootstrap 

- Developed a **responsive e-commerce website** using **Flask (Python) backend**, **MySQL database**, and **HTML, CSS, JavaScript (Bootstrap/Tailwind) frontend**.
- Implemented **user authentication (Signup/Login/Logout)** with secure password hashing.
- Built a **product listing and management system (CRUD operations)**.
- Developed a **shopping cart and checkout system**, integrating **PayPal/Stripe API** for secure payments.
- Added an **order tracking system**, updating and displaying real-time order status.
- Optimized database queries and improved performance by **30% using indexing and caching**.

AWARDS & ACHIEVEMENTS

Participated in presenting the real-time model for Moisture Controller System at V.R. Siddhartha Engineering College, 2023.,
V.R. Siddhartha Engineering college, Vijayawada

2023

Published research on Parkinson's Disease Detection in IRJET, 2024.

Languages

- Telugu
- Hindi
- English

Interests

Networking technology, IoT innovations, and exploring machine learning applications.

Declaration

I hereby declare that the details and information given above are complete and true to the best of my knowledge.

Gowtham Nukala