

Sidheshwar P S

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SUMMARY

Computer Science student passionate about software and web development, machine learning, data science, and IoT systems. Focused on building real-world projects and continuously improving technical skills to contribute to innovative solutions.

EDUCATION

Shiv Nadar University

B.Tech in Computer Science and Engineering (Internet of Things)

GPA: 7.7/10

Chennai, Tamil Nadu

2022 – Present

Relevant Coursework: DBMS, Data Structures, IoT Protocols, Computer Networks, Object Oriented Programming, Design and Analysis of Algorithms, Data Science, Artificial Intelligence and Machine Learning.

Sri Chaitanya Techno School

CBSE 12th Grade

Percentage: 93.4%

Chennai, Tamil Nadu

2022

SKILLS

Languages: Python, Java, C, HTML, CSS, JavaScript, SQL, PHP

Machine Learning: TensorFlow, OpenCV, Scikit-learn, LSTM

Tools: VS Code, IntelliJ, Jupyter, Colab, Git, XAMPP

Hardware: Arduino, ESP32, RFID, Sensors, Motor Driver, Breadboard

PROJECTS

Smart Glasses, RFID Attendance, and Self Balancing Robot

2023 – 2025

IoT, Arduino, ESP32, RFID, Sensors

- **Smart Glasses:** Built wearable glasses that displays time and notifications.
- **RFID Attendance System:** Developed an automated system to log student attendance to Excel using RFID tags.
- **Self-Balancing Robot:** Implemented PID algorithm on ESP32 with MPU6050 sensor to balance a two-wheeled robot.

Stock Price Prediction

August 2023

Python, TensorFlow, LSTM, Matplotlib

- Built an LSTM neural network to forecast stock trends using historical price data.
- Applied normalization, feature engineering, and time-series modeling to boost accuracy.
- Visualized predictions against real values using Matplotlib; evaluated results with RMSE.

Digital Asset Management System

September – November 2023

PHP, MySQL, Android, REST API

- Developed a web and mobile app for tracking and transferring digital assets.
- Designed backend using PHP REST APIs and integrated MySQL for persistent data storage.
- Implemented login system, role-based access, and asset management.

Student Exam Results Portal

July 2024

HTML, CSS, JavaScript, PHP, Python, MySQL

- Created a portal for teachers to upload and students to view marks with authentication.
- Handled backend using PHP for validation, MySQL for database, and Python for data automation.
- Enabled dynamic updates of marks and student dashboards via MySQL-Python integration.

Tax Incentive Chatbot (Ongoing)

March 2025-

Python, Retrieval-Augmented Generation (RAG), GAN

- Designing an AI chatbot that explains complex green incentives tax laws and carbon credit eligibility for businesses.
- Uses RAG and GAN methods for delivering real-time, relevant tax guidance.

Mental Health Web App (Ongoing)

April 2025-

React, JavaScript, CSS

- Developing a mental wellness application with features like journaling, mood tracking, and local storage.
- Designed clean, responsive UI with React and implemented client-side functionality.

LEADERSHIP & ACTIVITIES

Football Team Captain

October 2019

Led school team to quarter-finals; strengthened leadership, team collaboration, and strategic thinking.

University Chess Competition

December 2022

2nd place in University tournament; strategic thinking and pattern recognition

International MUN – UNHRC Reporter

April 2025

Participated as press delegate covering global debates; enhanced research, writing, and communication skills.