KRISH SONPAL

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PROFILE

Aspiring Data Scientist and Full-Stack Developer with experience in data-driven web applications and embedded systems. Proficient in Python, C++, and SQL. Passionate about solving real-world problems using technology and automation.

EDUCATION

Bachelor of Technology in Computer Science and Engineering   Expected 2027
Pandit Deendayal Energy University, Gandhinagar, Gujarat
CGPA: 9.87 (Till 4th Semester)

Senior Secondary Education (Class 12)   2023
Shree Swaminarayan Vidhya Sankul, Ahmedabad, Gujarat
Percentile: 88.39%ile

Secondary Education (Class 10)   2021
K.R.Raval School, Ahmedabad, Gujarat
Percentile: 99.37%ile

TECHNICAL SKILLS

Programming: C, C++, Python, Java
Web Technologies: Flask, HTML, CSS
Databases: MySQL, SQLite
Data Analysis: Matplotlib
Tools & Platforms: Git, Arduino IDE

LANGUAGES

English (Fluent), Hindi (Fluent), Gujarati (Native)

PROJECTS

Urban Parking Management System   2025

- Developed a real-time parking web app using Flask and SQLite.
- Implemented a clean, responsive user interface for efficient navigation and booking.

Natural Language to SQL Query Web App   2025

- Built a user-friendly web application that translates natural language queries to SQL using Python's regex.
- Integrated MySQL backend and Flask framework for live query processing.

Rapid Response – ESP32 Emergency Traffic System   2024

- Designed an embedded system using ESP32 to manage emergency vehicle prioritization.
- Created a communication protocol and integrated real-time control logic.

COURSES & CERTIFICATIONS

CS50's Introduction to Computer Science – Harvard   Ongoing
Covers foundational topics including algorithms, memory, data structures, and web development.

CS50's Introduction to Programming with Python – Harvard   2024
Learned fundamental programming concepts such as loops, functions, and data structures using Python.

CO-CURRICULAR EXPERIENCE

Civic & Social Services Internship – Forever Foundation   2024

- Contributed to community service through poster design, book donations, and food distribution drives.