VINCY SELVAKUMARI S

BIOMEDICAL ENGINEER

8/12 borgan st, tranquebar | vincyselvakumari23@gmail.com | https://github.com/Vincyselvakumari

SUMMARY

Biomedical Engineering graduate with strong foundational skills in Python, SQL, HTML, CSS, and JavaScript. Exploring modern web development through hands-on projects. Passionate about both data engineering and web technologies, with a commitment to continuous learning and contributing to real-world solutions.

TECHNICAL SKILLS

Python

SQL

HTML

CSS

JavaScript

- **Database Management:** MySQL
- **ETL & Data Engineering:** Basic understanding of Azure Databricks and ETL processes; familiar with concepts like data transformation, ingestion, and pipeline design.
- **Data Analysis & Visualization:** Power BI (Basics); beginner knowledge of data handling using Python (Pandas, NumPy)
- **Web Development:** Frontend design using HTML, CSS, JavaScript; created personal projects such as login pages and portfolio websites
- **Tools & Platforms:** VS Code, GitHub

PROFESSIONAL SKILLS

- **Curious and Self-Motivated**
- **Interested in Exploring New Technologies (Data Tools, Web Development)**
- **Quick Learner and Adaptable**

ACADEMIC PROJECTS

- **Laser-Based Non-Invasive Blood Glucose Monitoring with Automatic Insulin Injection System:**

  Role: Project Lead | Tools Used: PIC Microcontroller, Red Laser, Temperature & Photo Sensors
  Developed a biomedical system for monitoring blood glucose levels using non-invasive laser-based technology.
  Utilized a PIC microcontroller to interpret sensor signals and trigger automatic insulin injection based on threshold values.
  Integrated temperature and photo sensors to ensure accuracy and real-time response to physiological changes.

PERSONAL PROJECTS

- **Login Page with Flask and SQL – Integrated User Authentication System :**

  This project is a user authentication system built using Flask (Python), SQL, and a responsive front-end created with HTML, CSS, and JavaScript. The login page securely accepts a username and password, verifies them from the SQL database, and upon successful login, redirects the user to a web store interface (Cara website).
  - This project simulates a real-world login workflow, combining backend logic, database handling, and frontend web design.

  Github repository: https://github.com/Vincyselvakumari/login_page

- **Responsive Girly E-Commerce Website – Frontend Web Project**

  A visually appealing and fully responsive e-commerce website tailored for a female-oriented fashion brand. Built using HTML, CSS, and JavaScript, the site includes multiple functional sections such as Home, Shop, Blog, About, Contact, and Cart. The design emphasizes a modern and elegant aesthetic while ensuring seamless mobile responsiveness.
  - This project highlights my skills in, Structuring multi-page websites, Creating user-friendly UI/UX, Responsive design using only frontend tools.

  Live Website: https://classy-malasada-76662e.netlify.app/

- **Title: Hospital Database Management System – SQL Project**

  This project is a relational database system designed to simulate a real-world hospital environment. It manages data related to patients, doctors, appointments, and diagnoses. I built this project to apply my SQL skills in a domain relevant to my biomedical engineering background.
  The database allows tracking of doctor-patient relationships, appointment scheduling, diagnosis recording, and treatment histories. The project demonstrates the use of foreign keys, joins, aggregate functions, and real-time healthcare data structuring.
  Github repository : https://github.com/Vincyselvakumari/Meditrack_SQL

CERTIFICATIONS

- Sql mastery with my sql - LearnzDevelopmentHub
- MySQL Bootcamp - LetsUpgrade
- HTML, CSS Bootcamp - LetsUpgrade

EDUCATION

- **ksk college of engineering and technology darasuram** **2021 to 2025**
  Biomedical engineering I CGPA : 8.27
- **St.Theresa's girls hr sec school, tranquebar** **2020 to 2021**
  HSC stream Maths -Biology I Percentage 86.89%
- **St.Theresa's girls hr sec school, tranquebar** **2019 to 2020**
  SSLC I Percentage 85%

LANGUAGES

- **TAMIL**
- **ENGLISH**