AVINASH K

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About

Enthusiastically pursuing my final year Bachelor's Degree in Electrical and Computer Engineering, I have built a solid foundation in software development, particularly in areas such as Python, SQL, and web development. My expertise in these areas allows me to approach projects with confidence and deliver high-quality results. I strongly believe in the value of continuous learning and staying adaptable in the ever-evolving world of software engineering. I actively seek out opportunities to expand my knowledge and skills, embracing new technologies and approaches.

Education

Amrita School of Engineering, Coimbatore   **Sept 2021 − Present**
Bachelor of Technology in Electrical and Computer Engineering   *CGPA: 7.68/10*

Maharishi Vidya Mandir Senior Sec. School, Hosur   **June 2011 − May 2021**
Higher Secondary School Certificate Exam (HSC)   *Percentage: 85.2%*
Secondary School Certificate Exam (SSC)   Percentage: 81.8%

Experience

Intern – Web Development | *Wspl Hosting Solution (OPC), Tiruchengode. GIT*   **June 2024 - July 2024**
- Gained proficiency in designing and developing responsive websites using HTML, CSS, and JavaScript. Enhanced skills in conducting code reviews and debugging to ensure high-quality and efficient code. Contributed to the maintenance and enhancement of existing web applications and developed a personal portfolio website to showcase my projects. Learned to utilize modern web development tools and frameworks to streamline workflows.

Projects

Gender Detection using Face and Voice | *Neural Networks, Deep Learning.*
- Developed an innovative gender detection system utilizing neural networks and deep learning techniques. Integrated facial and voice recognition to enhance the system's accuracy and effectiveness. Showcased expertise in advanced AI model implementation and multi-modal data processing.

Petrol Pump Management | *Python, SQL, Streamlit*
- Designed and implemented a Petrol Pump Management system using Python, SQL, and Streamlit. Streamlined operations and data management through an intuitive interface and robust backend. Demonstrated proficiency in full-stack development and database integration.

Instant Tele-Emergency Alarm Module-iTEAM | *ARM7 LPC2148, GSM Module*
- Engineered the Instant Tele-Emergency Alarm Module (iTEAM) using ARM7 LPC2148 and GSM module technology. Developed a system for instant emergency alerts and communication, enhancing rapid response capabilities. Demonstrated expertise in embedded systems and wireless communication.

Face Emotion Detection | *Neural Networks, Deep Learning.*
- Developed a Face Emotion Detection system using the LeNet-5 architecture in deep learning and neural networks. Focused on accurately identifying emotions from facial expressions.

Technical Skills

Programming Languages: C, Python.

Web Technologies: HTML, CSS, JavaScript, Node.js, Express.js.

Embedded Systems & IoT: PIC16F877A, LPC2148.

Database Management: MySQL, Hbase.

Software & Tools: MATLAB, SIMULINK, ETAP, LTspice, MPLAB, Keil uvision 4, GitHub, Hadoop2.0, AUTOSAR.

Coursework: Data Structures & Algorithms (DSA), Operating Systems, Database Management System (DBMS), Object-Oriented Programming (OOPs), Web Development, Artificial Intelligence (AI), Fundamentals of Soft Computing, Computer Networks, Big Data Analytics.

Languages: English, Tamil.

Certifications

- **Software Engineering Job Simulation, JPMorgan Chase & Co.**
- **Full-Stack Web Development, DevTown.**
- **Python (Basic), HackerRank.**
- **Simscape Onramp, MathWorks.**
- **Certificate of Internship, Wspl Hosting Solution.**
- **Programming Fundamentals using Python, Infosys.**
- **Database Management System, Infosys.**

Social Engagements

- **Volunteer - National Service Scheme (NSS)**
  June 2022 − Present
- Achieved proficiency by clearing all 6 levels in *Shabari Siksha Sansthan* Hindi exams.
- Acquired Orange Belt in ***Kung-Fu.***

Achievements

3 Stars - Python (125 points), Hackerrank.

110 problems − LeetCode.