SHANDON SAMUEL S

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SUMMARY:

Enthusiastic individual with a strong ability to drive organizational growth by combining technical expertise in Python, JavaScript, C, SQL, and IoT with excellent communication skills, ready to tackle complex coding challenges and contribute to innovative tech solutions.

AREA OF INTEREST:

- Data engineer
- Prompt engineering
- Machine learning and deep learning
- Web develop
- AIOT

TECHNICAL SKILLS:

- Python programming
- JavaScript
- HTML, CSS
- C language basics
- SQL
- R language

EDUCATION:

B.Tech AI and Data Science | **KCG college of technology** (2025)

CGPA scored until 7th semester - 8.0

SSLC and HSC | **Bharathidhasanar Matric Hr Sec School** (2019 and 2021)

HSC percentage of marks scored - 85%

SSLC percentage of marks scored - 90%

PROJECTS:

1. **Smart NICU for Neonates | Using YOLOV8 Pose Detection and Analysis of Baby vitals**:

In this project, we utilized a bespoke pose detection model to determine the neonate's posture. The model continuously records the neonate's vital signs and generates a comprehensive report on the neonate based on our machine learning model's analysis.

2. **Smart Home Automation System | Using Image Segmentation:**

In this project, we used our own product to gather data on the power use of the business sector. In order to use our AIoT system to operate the HVAC equipment in that area of the commercial sector, we developed a bespoke model to monitor activities in that sector.

3. **Automated Mobile Robotic Arm:**

In order to obtain information about the environment surrounding our product, we employed a variety of sensors and mapping techniques in this project. Our model moved around the workstation, picking up and placing packaged items, and moving them to their proper locations. lowering the possibility of human mistake and contact

4. **Sustainable energy harvesting:**

Here, we developed an Internet of Things system that utilizes piezoelectric plates to generate electricity from vibration energy with solar energy as an add on, promoting sustainable energy.

5. **Smart plastic management system:**

A smart management system to collect and segregate different types of plastics in the environment, monitoring and analysis through user friendly web page.

ACHIEVEMENTS:

- **BEST SUSTAINABLE PROJECT DEVELOPER AWARD 2025** : Awarded by college
- **BEST PROJECT AWARD SHRISTI 2025**: Winner
- **I-DAPT HUB PITCH IIT VARANASI 2022:** Second Runner-up.
- **IET SMART CITY CHALLENGE 2022:** Runner-up.
- **QUEST GLOBAL 2023:** Top 10 out of 1018 teams across India.
- **MISTRAL HACKFEST 2023:** Top 20 across India.
- **PALS INNOVAH 2024:** Top 5 across south India.
- **TECHNICAL INFUSION CHALLENGE LA TROBE 2024:** Granted 500 AUD.

TECHNICAL CERTIFICATIONS:

- Intern at RETECH solutions – Machine learning and Python. (Nov 2023)
- NPTEL certified for Python for Data Science. (July 2023)
- INFOSYS Springboard –Introduction to Artificial Intelligence. (Nov 2022)
- NVIDIA – Fundamentals of Deep Learning. (Sep 2022)
- Certification in C Language from Great Learning (May 2023)
- Programming Fundamentals using Python - Part 1(Feb 2022)

EXTRA CURRICULAR ACTIVITIES:

- Member of project development cell (PDC) in college
- Co-ordinated Smart India Hackathon 2024
- Aura 2025 group dance winner
- Worked as a web designer in ReBloom Fashions
- Participated in dance competitions at college level
- Participated in throw ball tournaments at the district levels
- Participated in soft ball tournaments at the state levels
- Volunteered in cultural events.
- Participated in photography contest at the college levels

PERSONAL SKILLS:

- Critical Thinking
- Strong communication
- Leadership
- Problem solving
- Time management
- Adaptability

HOBBIES:

- Dance
- Story writing
- Photography
- Video editing
- Exploring new tech
- Listening to podcast