

PRABANYA S

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[LinkedIn](#) | [GitHub](#)

SUMMARY

Motivated MCA graduate with strong foundation in Computer Science, passionate about teaching and academic excellence. Skilled in programming, database systems, operating systems, and software development concepts. Quick learner with strong communication and mentoring abilities, keen to guide and support students in both theoretical and practical learning. Enthusiastic about contributing to the academic community and continually upgrading knowledge to match industry and education trends.

EDUCATION

Master of Computer Applications (2023 – 2025)	CGPA
Rathinam Technical Campus, Coimbatore	8.65
Bachelor of Science – CSA (2020 – 2023)	CGPA
VET Institute of Arts and Science, Erode	7.9

EXPERIENCE

Trainee Embedded Software Engineer – 7 months

Phytec Embedded Pvt. Ltd., Bangalore
(Internship)

- Developed firmware for STM32 and RuggedBoard A5D2x with low-level peripheral configuration.
- Interfaced temperature, humidity, and soil moisture sensors via UART/I2C/SPI.
- Integrated Zephyr RTOS and optimized task scheduling for embedded applications.

- Worked with Yocto BSP, Fledge, and Linux-based platforms for IoT solutions.
 - Participated in code reviews, technical documentation, and version control using Git.
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PROJECTS

IoT-Based Smart Agriculture System

Duration – 4 months Individual Project

- Built a smart irrigation system using STM32F446RE, DHT22, soil sensors, and relay control.
- Integrated real-time sensor data streaming to ThingsBoard via MQTT for remote monitoring and automation.

AI-Based Human Pose Detection

Duration – 2 months Individual Project

- Developed a real-time pose detection system using MoveNet for keypoint extraction and custom classifier for pose recognition.
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TECHNICAL SKILLS

- **Languages:** C, C++, Python, Java, Git.
 - **Microcontrollers & Platforms:** STM32, RuggedBoard A5D2X, IMX8 M Plus
 - **Frameworks:** Zephyr, Yocto. RTOS.
 - **Communication Protocols:** UART, SPI, I2C, MQTT.
 - **Databases & Cloud:** MySQL, ThingsBoard
 - **Other Tools:** Microsoft Office Suite
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ADDITIONAL INFORMATION

- **Soft Skills:** Communication, Creativity, Problem-Solving, Teamwork
- **Languages:** English, Tamil.