

# SOMESHWARAN G



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## Objective

To pursue a career in order to communicate knowledge, impart skills, motivate, and thereby strive the inculcation community to achieve my cherished goals with valuable perspectives

- Willing to work as a key player in a challenging and innovative environment

## Education

- **PhD in Image Processing using Deep Learning**  
SRM Institute of Science and Technology, Kattankulathur (**Pursuing**)
- **M. Tech in VLSI Design**  
SRM Institute of Science and Technology, Full-time (2019-2021), Graduated with 8.74 CGPA (87.4%)
- **B.E. in Electronics and Communication Engineering**  
Panimalar Engineering College, Full-time (2015-2019), Graduated with 7.59 CGPA (75.9%)

## Key Skills

- **Full Stack Development:** Skilled in building end-to-end web applications using modern technologies
- **Analytical Skills:** Strong problem-solving abilities with a data-driven approach to decision-making
- **Communication:** Effective verbal and written communication skills for collaborating with cross-functional teams
- **Multitasking:** Proven ability to manage multiple tasks, set priorities, and meet deadlines

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## **Area of Specialization**

- Artificial Intelligence
  - Image processing
  - Computer Vision
  - VLSI Design
  - Academia and Training
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## **Computer Efficiency**

- **Operating Systems:** WINDOWS, LINUX
  - **Software:** MS Office, Data Structures, MATLAB, Open CV, Networking and Xilinx
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## **Projects**

- **PhD:** An Analytical Detection of Fetal Heart Disease in Ultrasound Images Using Deep Learning Techniques (**Research Pursuing**)
  - **PG:** High-Speed Low Power Adaptive Filter Architecture
  - **UG:** Advanced Surveillance and Locking Systems
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## **Paper Publications**

- **Someshwaran. G, Sarada. V. (2025).** “FHD deep learning prognosis approach: Early detection of fetal heart disease (FHD) using ultrasonography image-based IROI combined multiresolution DCNN.” Technology and health care: official journal of the European Society for Engineering and Medicine: 9287329241310981.
  - **Someshwaran. G, Sarada. V. (2024).** “Disease Prognosis of Fetal Heart’s Four-Chamber and Blood Vessels in Ultrasound Images Using CNN Incorporated VGG 16 and Enhanced DRNN. International Arab Journal of Information Technology (IAJIT)”, 21(6). <https://doi.org/10.34028/iajit/21/6/13>.
  - **Someshwaran. G, Sarada. V. (2024).** “An Improved Detection of Fetal Heart Disease Using Multilayer Perceptron”. In International Conference on Intelligent Computing for Sustainable Development. ICICSD 2023. Communications in Computer and Information Science, vol 2122. Springer, Cham. [https://doi.org/10.1007/978-3-031-61298-5\\_15](https://doi.org/10.1007/978-3-031-61298-5_15).
  - **G. Someshwaran and V. Sarada (2022).** “A Research Review on Fetal Heart Disease Detection Techniques”, In 6th International Conference on Intelligent Computing and Control Systems (ICICCS), Madurai, India, 2022, pp. 1674-1681, doi: 10.1109/ICICCS53718.2022.9788226.
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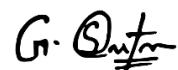
- **Siva. S, Shalom Ragland, U. Prashanth, G. Someshwaran (2019).** “Advanced Surveillance and Locking Systems”, International Journal for Scientific Research & Development (IJSRD), vol 7, 2019, pp.772-775
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## **Workshops/Faculty Development Programs/Training Courses/Inculcation Activities**

- Presented an inculcation poster on congenital cardiac disorder prognosis **“Dr. Paarivendhar Research Colloquium – DPRC 24”** (March 26-28, 2024)
  - One-week FDP **“Deep Learning and AI-Based Health Systems”** (Dec 18-24, 2023)
  - One-day training session **“Exploring Hardware Design Tool VITIS HLS”** (April 18, 2023)
  - Presented an inculcation poster on fetal heart disease detection **“Dr. Paarivendhar Research Colloquium - DPRC 23”** (March 29-31, 2023)
  - Three-day online webinar participation **“Gen AI, webinar series-II”** (March 26, 28 and 30, 2023)
  - IP awareness /training program participation **“National Intellectual Property Awareness Mission”** (Aug 18, 2022)
  - Five-day workshop **“Designing and Modelling of IoT, AI & ML Systems”** (Aug 1-5, 2022)
  - Three-day FDP **“SoC Design Methodologies Using Intel FPGA”** (July 20-21, 2022)
  - IP awareness /training program participation **“National Intellectual Property Awareness Mission”** (July 21, 2022)
  - One-week FDP **“Practices on Deep Learning Models, Simulation Tools, and Data Visualization Techniques in Cloud Computing”** (Feb 14-19, 2022)
  - Online training course completion **“MATLAB Onramp”** (July 27, 2022)
  - One-day industrial visit **“Regional Telecom Training Centre”** (Jan 27, 2020)
  - Three-day industrial training **“Network Concept, IP Addressing and Router Configuration”** (June 4-6, 2017)
  - Certified in English language assessment **“Cambridge English Entry-Level in ESOL”** (March 2017)
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## **Declaration**

I hereby solemnly declare that all the statements made in this format are true, correct, and complete to the best of my knowledge and belief.



**SOMESHWARAN G**