



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

Area of Specialization

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

Computer Efficiency

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

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

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.
 - **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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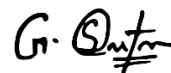
- **Siva. S, Shalom Ragland, U. Prashanth, G. Someshwaran (2019).** “Advanced Surveillance and Locking Systems”, International Journal for Scientific Research & Development (IJSRD), vol 7, 2019, pp.772-775
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Workshops/Faculty Development Programs/Training 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.



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