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Contact Information	<b>Email:</b> <a href="mailto:timgeorge27@hotmail.com">timgeorge27@hotmail.com</a> <b>Phone:</b> (+91) 8137934270 <b>GitHub:</b> <a href="https://github.com/TimG27">TimG27</a>	<b>Website:</b> <a href="https://timg27.github.io">timg27.github.io</a> <b>LinkedIn:</b> <a href="https://www.linkedin.com/in/timothytg27">timothytg27</a> <b>GoogleScholar:</b> <a href="https://scholar.google.com/citations?user=TimothyThomasGeorge">Timothy Thomas George</a>
Summary	<ul style="list-style-type: none"><li>• B.Tech Computer Science &amp; Engg., VIT Chennai (2024); Rank #2 in Class of 2024.</li><li>• Experience at research labs at the University of Calgary and VIT Chennai.</li><li>• Co-authored 2 peer-reviewed publications, 1 book chapter, and 2 conference papers.</li></ul>	
Education	<b>Vellore Institute of Technology</b> , Chennai, India <i>B.Tech. Computer Science and Engineering</i>	Sept 2020 - May 2024 GPA: 9.73
Research Experience	<b>University of Calgary</b> , Calgary, Canada <i>Summer Research Intern</i> Supervisor: Dr. Roberto Souza	May 2023 - July 2023
	<ul style="list-style-type: none"><li>• Evaluated the role of image processing in domain adaptive deep learning models.</li><li>• Investigated image registration and MR visualization using ITK-Snap.</li></ul>	
	<b>Vellore Institute of Technology</b> , Chennai, India <i>Summer Research Intern</i> Supervisor: Dr. Karthik R.	May 2022 - July 2022
	<ul style="list-style-type: none"><li>• Developed a novel deep learning model for endoscopy image classification.</li><li>• Published a peer-reviewed paper demonstrating our model's superior performance.</li></ul>	
Teaching Experience	<b>Vellore Institute of Technology</b> , Chennai, India <i>Undergraduate Teaching Assistant</i>	Fall 2023
	<ul style="list-style-type: none"><li>• Mentored 15 Year-2 students taking the Computer Networks (BCSE308L) course.</li><li>• Conducted 18 hours of tutorials, prepared quizzes and distributed assignments.</li></ul> <a href="#">[YouTube]</a>	
Peer-reviewed Publications	Karthik, R., Hussain, S., <b>George, T. T.</b> , & Mishra, R. (2023). A dual track deep fusion network for citrus disease classification using group shuffle depthwise feature pyramid and Swin transformer. <i>Ecological Informatics</i> , 78, 102302. <a href="#">[doi]</a> <a href="#">[GitHub]</a>	
	Ramamurthy, K., <b>George, T. T.</b> , Shah, Y., & Sasidhar, P. (2022). A novel multi-feature fusion method for classification of gastrointestinal diseases using endoscopy images. <i>Diagnostics</i> , 12(10), 2316. <a href="#">[doi]</a>	

## Book Chapters

Tyagi, A. K., **George, T. T.**, & Soni, G. (2023). Blockchain-Based Cybersecurity in Internet of Medical Things (IoMT)-Based Assistive Systems. In *AI-Based Digital Health Communication for Securing Assistive Systems* (pp. 22-53). IGI Global.

[\[doi\]](#)

## Conference Publications

Madhavan, S. R., **George, T. T.**, Jerusha, Y. A., & Syed Ibrahim, S. P. (2023, March). International Conference on intelligent COMPUTing TEchnologies and Research (i-COMPUTER 2023). In *Book of Abstracts* (pp. 122–123). Karaikal, India.

[\[Paper\]](#)

**George, T. T.**, & Tyagi, A. K. (2022, January). Reliable Edge Computing Architectures for Crowdsensing Applications. In *2022 International Conference on Computer Communication and Informatics (ICCCI)* (pp. 1-6). IEEE.

[\[doi\]](#)

## Projects

### **Newborn MRI Reconstruction: Translating Adult-Trained Models**

- Tested a deep-learning MRI Reconstruction model for domain adaptability.
- Evaluated models against a baseline and applied image processing techniques.

*University of Calgary, Calgary, Canada*

Aug 2023

[\[Github\]](#)

### **Precision Data Mining for Protein Database Development**

- Designed and implemented Python scripts to extract crucial data from websites.
- Partnered with a PhD candidate and a Data Scientist in a collaborative effort.

*Vellore Institute of Technology, Chennai, India*

Oct 2023

[\[Github\]](#)

### **Collaborative Real-time Web Development using MDWE and Deep Learning**

- Introduced a deep-learning technique that allows generative web app development.
- Calculated a reduction in the overall development time and effort with our method.
- Developed a prototype platform using ReactJS, Socket.IO, and Flask.

*Vellore Institute of Technology, Chennai, India*

Nov 2022

### **Parallel implementation of MobileNetV2 for real-time images**

- Introduced a parallel procedure for speedy Face Mask Detection by MobileNetV2.
- Reported the performance of ‘Numba’ and ‘Multiprocessing’ using our method.

*Vellore Institute of Technology, Chennai, India*

Nov 2022

## Seminars

### **”Research with Mendeley Tools”**

*Duration: 1 hour*

- Tutored a Year-1 class on integrating Mendeley with their preferred writing software.
- Answered general queries about undergraduate research writing.

*Vellore Institute of Technology, Chennai, India*

14 Sept 2022

Fellowships and  
Awards

**Mitacs Globalink Research Fellowship (for Globalink Interns)**

Awarded to all accepted students participating in Mitacs Globalink Research Internship and covers most expenses during the 12 weeks of the internship. May 2023

**VIT Meritorious Award (Academic Excellence)**

Awarded to the ten highest academically performing students (top 2%).

*Vellore Institute of Technology, Chennai, India* Jan 2023, Jan 2022 (twice)

Extracurriculars

**Summer Program - "Sustainability and Development: Tamkang to the World"**

- Engaged in discussions on technology, economics, and culture in the 21st century.
- Interacted with global peers representing 10+ countries, gaining insights into Far East Asian language, cuisine, and history. July 2022

**Volunteering - ENACTUS VIT Chennai Chapter**

- Spearheaded marketing of a greatly successful scrunchies sale on campus.
- Teamed up on a donation campaign to gift hand-woven ornaments to 100+ schoolgirls at the AP Tribal Welfare Girls School, Narasaraopet. Jan 2022

Professional  
Memberships

**Open Web Application Security Project (OWASP)**

2021 - present

- Initiated outreach for collaborations on chapter activities with 15+ companies and NGOs.
- Coordinated event management efforts for the chapter's cybersecurity event throughout the year.