

## Tejeswini Sundaram

### Work Address

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**Education** B.Tech. in Computer Science, May 2015  
Manipal Institute of Technology, Manipal, India  
CGPA **9.43 / 10.00**

**Area of Interest** Parallel Computing, Computer Architecture, Machine Learning.

**Experience** **Project Assistant**, HPC Lab, SERC IISc, B'lore. Aug 2015 - Present

- Working in multicore architecture and parallel computing
- Research on accelerated computer vision algorithms on heterogenous compute.

**Research Intern**, HPC Lab, SERC IISc, B'lore. Jan - Aug 2015.

- Formulated bachelor thesis project titled, "*AlCoViC : Accelerated Computer Vision using Heterogenous Coprocessors*"
- Analyzed performance, execution time, core utilization, and overheads in the choosen OpenCL accelerated OpenCV benchmark algorithms.

**Summer Intern**, Microsoft, Bangalore. Jun - July 2014.

- Designed and developed the MCS India Delivery Dashboard for customer centric delivery tracking.
- Implemented the web-enable dashboard for information management and actionable decision making using C#, visual studio and metro apps design.

**Summer Intern**, Tata Consultancy Services, Chennai. Jun - Jul 2013.

- Worked on an internal communication software, using Java Language. Built the front end and linked the database to the backend of the system.

**GE Foundation Scholar**, GE JFWTC Centre, Bangalore. May - Jun 2013.

- Designed "*Scavenger*", a frugal smart waste management system with an innovative sanitary napkin incinerator and wireless central monitoring system for India buildings.

**Winter Schools** **IPTSE Winter School**, Carnegie Mellon University. Dec 2014.

- Research on "*Voice Forensics*", a system to identify bodily features and demographic information about a miscreant from the voice evidence collected
- Analyzed audio features such as signal energy, loudness, pitch, MFCC, PLP-CC, voice quality, and formants.
- The Framework developed, using neural networks, consisted of audio feature extraction, machine learning tools, classification and regression algorithms.

**I-CARE Winter School**, IBM India Research Labs. Oct 2014.

- Studied about the current trends in areas of Deep Learning, Machine Learning and Big Data Analytics.

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| <b>Publications</b>          | <ul style="list-style-type: none"> <li>• <b>Word Existence Algorithm</b>, Tejeswini Sundaram, Vyom Chabbra, International Conference on Computational Methods in Engineering and Health Sciences (ICCMEH), 2014.</li> <li>• <b>Binary Encryption using Based on a Rubiks Cube</b>, Tejeswini Sundaram, Vyom Chabbra, International Conference on Computational Methods in Engineering and Health Sciences (ICCMEH), 2014.</li> </ul>   |  |
| <b>Poster Presentation</b>   | <ul style="list-style-type: none"> <li>• <b>"Voice Forensics"</b>, Tejeswini Sundaram, Priya Soundarajan, Sakthivel.S, and Utkarsh Pathange at CMU Internship Program in Technology Supported Education (IPTSE) Winter School, held by CMU and NITK Surathkal.</li> </ul>  |  |
| <b>Leadership Activities</b> | <b>Program Committee Member</b> , Systems Track, GHCI-2015. 2015<br><b>Chairperson</b> , IEEE Student Branch Manipal. 2014<br><b>Judges and Reception Head</b> , Tesseract, IEEE SBM tech-fest. 2014<br><b>Team Manager</b> , Team Internet, GE Foundation Scholar Leader Program. 2013<br><b>Technical Committee Member</b> , IEEE SBM. 2012<br><b>Sports Captain</b> , St Francis Xavier Girls High School. 2009<br><b>Hostel Representative</b> , SFX Hostels. 2009<br><b>House Prefect</b> , St Francis Xavier Girls High School. 2008 |  |
| <b>Honors &amp; Awards</b>   | GE Foundation Scholar- Leader Scholarship (GEFSLP) Award 2013-15.<br>AICTE Scholarship, Government of India, 2011-15.<br>GHCI Student Scholarship, Grace Hopper Celebration India (GHCI), 2015.<br>Best Project Award, CMU IPTSE Winter School, 2014.<br>Rotary Youth Leadership Awards (RYLA), RI District 3160, 2012.  |  |
| <b>Computer Skills</b>       | <u>Languages:</u> C, C++, C#, Java, Python, OpenCL, OpenMP, MPI, OpenCV.<br><u>Software:</u> Git, Vtune Amplifier, Gdb, Visual Studio, Weka, Caffe.<br><u>Operating Systems:</u> Microsoft Windows, OpenSUSE, Ubuntu, Debian Wheezy.   |  |
| <b>References</b>            | Will be provided on request.   |  |