Vidya G

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EDUCATION

Year	Degree / Certificate	Institute / Board	CGPA/Percentage
2021	B.Tech	Vellore Institute of Technology	8.4
2017	Senior secondary	Karnataka PUE	89.6(PCME)
2015	Secondary	CBSE board	8.6

EXPERIENCE

- **R&D Intern at ERICSSON INDIA, Chennai** *July 2020 – Dec 2020*
  VLC user localization and DL Model compression techniques. (Ongoing) *https://www.ericsson.com/en*

- **Remote Research Associate - MORSE STUDIO** *April 2020 -Sept 2020*
  Research on Handwriting Analysis for Depression and Dyslexia *Rushmore professor & laboratory responsive template (gsu.edu)*

- **FLSmidth Pvt Ltd, Chennai** *May 2019 - July 2019*
  Design and Program for Cement Mill and Raw Material handling *https://www.flsmidth.com/*
  using ECS -SCADA and PLC (Siemens step7)

RESEARCH ACTIVITIES

- **Graphology using Computer Vision** *Oct 2020*
  - Handwriting Analysis for Depression and Dyslexia using computer vision.

- **Arrhythmia Classification** *May 2020*
  - Multiclass Classification of Cardiac Arrhythmia. (Prospective Submission to Springer Book Chapter)

- **Anomaly Detection in Drone-Captured Images Using Machine Learning Techniques and Deep Learning Architectures** *Sept 2020*
  - **Best Paper Award**, Virtual International Conference on Futuristic Communication and Network technologies (VICFCNT2020)

- **Anomaly Detection in Drones with Machine Learning Algorithms** *Sept 2020*
  - Accepted for presentation and publication by VICFCNT2020.

PROJECTS

- **Gesture Vocalizer for the deaf/mute** *Jan 2020*
  - A microcontroller-based system to convert hand gestures into speech for easy understanding of expressions for the disabled.

- **IoT in Hydroponics for fodder** *Oct 2020*
  - Iot based automated hydroponic system using temperature, pH, EC and moisture sensors.

- **Smart Walking Cane for the blind** *Aug 2020*
  - A low cost and light weight system with enhanced features by embedding utilities like obstacle avoidance.

- **Audio transmission through visible light** *Mar 2019*
  - Wireless optical transmission of sound wave using Li-fi with earphone jack or input from an arduino.

ACHEIVEMENTS

- National Finalist-India **GGITC Schneider Electrics** -Designed a DL model that provides the framework to make real-time intelligent decisions using IoT in home automation. *Oct 2019*

- Received **Google Cloud Platform Research Grant** worth **$5000** for the proposal of our research on Handwriting Analysis for Depression and Dyslexia. *Aug 2020*

- Won 3rd place in the 24Hours Make-A-Thon by designing an onchip circuit using Mach Zehnder Interferometer on Lumerical, VIT Chennai. *Mar 2020*

- Secured regional 3rd in Elocution organized by the **Airport Authority of India** -South Indian Region during the Vigilance Awareness week.   *Oct 2018*

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, Java
- **Data Analysis:** NumPy, Scikit-Learn, Pandas, Keras, Tensor Flow, Pytorch, Cuda
- **Software:** MATLAB and SIMULINK, Keil uVision, Proteus, Siemens step7, ECSSCADA, Cadence, NS2, PSpice.
- **Hardware:** Arduino, Raspberry pi, LPC11U24
- **Miscellaneous:** Adobe Photoshop

POSITIONS OF RESPONSIBILITY

- Treasurer | Board Member of the IEEE Computer Society, VIT Chennai *(2018-19).*
- Head of design, IEEE Women in Engineering, VIT Chennai *(2018).*
- Vice Executive Director- HackHub2019, IEEE Computer Society, VIT Chennai *(2019)*

EXTRACURRICULARS

- **COMSNETS 2020:** Volunteered at a premier International Conference dedicated to advances in Networking and Communications Systems.
- Secured 2nd place in a 14km cycle Marathon during the National Level sports festival of VIT Chennai, **VIBRANCE2018**
- Emerging Student Volunteer Award 2018, **IEEE Student Branch**, VIT Chennai
- **VITeach** (Social outreach club) - School Team coordinator and volunteer for ENVISION 2019 (Hosted by NFB-National Federation of the Blind of India and COGNIZANT)
- Partnership Lead at **Renaissance 2018** which provides a platform for the growing entrepreneurial mindset within students, VIT Chennai.

KEY COURSES UNDERTAKEN

- Data Structures and Algorithms | Object Oriented Programming | Algorithm Toolbox
- Essentials of Machine Learning | IoT and ML -Bolt | Open Source tools for Data science
- Embedded Systems | Microcontrollers | Aerial Robotics | Computer Communication

INTEREST AND HOBBIES

- Graphic Design using Adobe Photoshop and Illustrator
- Pencil Sketching