

+91-9886077139 gvidya1899@gmail.com https://github.com/Vidya1899 https://www.vidyaganesh.com

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

Video transmission framework using generative modeling techniques.

• Remote Research Associate - MORSE STUDIO

Research on Handwriting Analysis for Depression and Dyslexia

FLSmidth Pvt Ltd, Chennai

Design and Program for Cement Mill and Raw Material handling using ECS -SCADA and PLC (Siemens step7)

July 2020 - present https://www.ericsson.com/en

April 2020 - present

https://www.vidyaganesh.com/#Research

May 2019 - July 2019 https://www.flsmidth.com/

RESEARCH ACTIVITIES

• Graphology using Computer Vision (Prospective Submission in ELSEVIER Smart Health, 2021)

Oct 2020

- Handwriting Analysis for Depression and Dyslexia using computer vision and natural language processing.

• Multi-context aware knowledge distillation (Submitted to IJCAI2021)

Aug 2020

- Also selected by ITU AI/ML in 5G challenge- AI for social good summit, 2020.

 Anomaly Detection in Drone-Captured Images Using Machine Learning Techniques and Deep Learning Architectures

Sept 2020

Sept 2020

- Best paper award, Virtual International Conference on Futuristic Communication and Network technologies (VICFCNT2020)

· Anomaly Detection in Drones with Machine Learning Algorithms

- Published with Springer by VICFCNT2020.

https://www.vidyaganesh.com/#Projects

· Multiclass classification of cardiac arrhythmia

Jan 2020

- Arrhythmia classification using the UCI Machine learning repository's arrhythmia dataset.

• Gesture Vocalizer for the deaf/mute

Dec 2019

- A microcontroller-based system to convert hand gestures into speech for easy understanding of expressions for the disabled.

• IoT in Hydroponics for fodder

PROJECTS

Oct 2019

- Iot based automated hydroponic system using temperature, pH, EC and moisture sensors.

· Smart Walking Cane for the blind

Aug 2019

- A low cost and light weight system with enhanced features by embedding utilities like obstacle avoidance.

• Future of smart buildings

Mar 2019

- A DL model that provides the framework to make real time intelligent decisions using IoT and home automation.

· Audio transmission through visible light

Mar 2019

- Wireless optical transmission of sound wave using Li-fi with earphone jack or input from an arduino.

· Real time temperature monitoring and telegram alerts

Jan 2019

- Monitors and also predicts temperature in real time and alerts user through telegram.

ACHEIVEMENTS

Secured Global Rank 2 in the ITU AI/ML Challenge for the research on deep learning model compression
using knowledge Distillation.

Dec 2020

• 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.

Aug 2019

• Received **Google Cloud Platform Research Grant** worth \$5000 for the proposal of our research on Handwriting

Analysis for Depression and Dyslexia.

Aug 2020

• Runner up 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, Illustrator

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