

Srihari Maruthachalam

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Machine Learning Enthusiast, relish solving various real-world problems using Deep Learning and Machine Learning algorithms

Educational Qualifications

- 2016 - Present **Indian Institute of Technology, Madras**, MS by Research in Computer Science and Engineering, 8.0/10.
- 2010 - 2014 **Anna University, Chennai**, B.Tech. Information Technology, 8.2/10.
- 2008 - 2010 **Devanga Higher Secondary School, Coimbatore**, Science and Mathematics, 12, 8.3/10.
- Earlier days - 2008 **Devanga Higher Secondary School, Coimbatore**, General Studies, 10, 8.3/10.

Publications

- EMBC 2019 **Srihari Maruthachalam**, Mari Ganesh Kumar, and Hema A Murthy, *Time Warping Solutions for Classifying Artifacts in EEG* 2019 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2019, Germany
- Interspeech 2018 **Srihari Maruthachalam**, Sidharth Aggarwal, Mari Ganesh Kumar, Mriganka Sur, and Hema A Murthy, *Brain-Computer Interface using Electroencephalogram Signatures of Eye Blinks*. Proc. Interspeech 2018, 1059-1060, Hyderabad, India

Selected Courses

- Credited Kernel Methods for Pattern Analysis • Introduction to Research • Speech Technology • Advanced Data Structures & Algorithms • Linear Algebra and Random Processes • Pattern Recognition
- Audited Deep Learning • Computational Models of Cognition

Selected Projects

- MNIST Stochastic, Batch Gradient Descent, Adam, Nesterov based handcrafted Neural Network for MNIST handwritten characters and fashion images classifier • Python, Numpy
Convolutional Neural Network based classifier for MNIST handwritten characters and fashion images classifier • Python, Numpy, PyTorch
- BFish Mail Non IMAP and non POP based hassle-free database powered Mailing and Chatting interface • PHP, MySQL, Apache
- SEAT Student Elective Allocation Tool for generating elective allocations from student courses preference • Java, PHP, MySQL, Apache
- DimintOS A cloud-based operating system where the user can manage files, processes and customize • C, Shell, PHP, MySQL, Apache

Skills

- Languages Matlab • Python • C • C++ • Java • ASP.Net • PHP • MySQL
- Tools Numpy • PyTorch • Tensorflow • Keras • Git • L^AT_EX • EEGLab

Professional Experience

- Jul 2019 - Present **Project Associate, Indian Institute of Technology, Madras, Chennai**.
Signal processing and speech synthesis for determined people in mobile technology

- Dec 2016 - **Teaching Assistant**, *Indian Institute of Technology, Madras*, Chennai.
- Jun 2019 Half-Time Research Assistantship (HTRA) funded by MHRD, India
- Aug 2015 - **Programmer Analyst**, *Cognizant Technology Solutions India Pvt Ltd.*, Chennai.
- Jan 2017 Full stack developer built workflow management for a reputed insurance industry using ASP.Net, jQuery and Entity Framework

Position of Responsibilities

Research Councillor, *Indian Institute of Technology, Madras*.

The departmental representative for Research scholars takes responsibilities of addressing concerns and feedback to the Dean of Academic Research (IITM)

Placement Core, *Indian Institute of Technology, Madras*.

Placement core manages the placement process for students and scholars for the department

Teaching Assistant, *Indian Institute of Technology, Madras*.

Teaching assistant for Introduction to Programming Languages and Programming Paradigm

Design Core, *Indian Institute of Technology, Madras*.

Design team core takes responsibilities of designing the website, poster, and T-Shirts for Research Scholars Day festive

Scholastic Achievements

- GATE 2016 Top 1.5% among 1 million+ candidates
- Academic Awarded Second prize in Code Debugging by SNS College of Technology in the year 2011
- Engineering Awarded First prize in E Graph(Engineering Graphics) by Adithya Institute of Technology in the year 2010
- Coding Awarded First prize in Bug Hunt, Code Pairing, Junk Funk by PSG College of Technology in the year 2013
- Awarded Second prize in Code Chat by PSG College of Technology in the year 2013
- Awarded Eighth prize in All India level TopCoders by Adithya Institute of Technology in the year 2012
- Awarded First prizes in Code Debugging Contests by Easa College of Engineering and Technology, Park College of Engineering and Technology and KGISL Institute of Technology in the year 2012, 2012 and 2011 respectively
- Awarded Second prize in Code Debugging by SNS College of Technology in the year 2011
- Engineering Awarded First prize in E Graph(Engineering Graphics) by Adithya Institute of Technology in the year 2010

Conference and Workshop Attended

IEEE Engineering in Medicine and Biology Society (EMBC) 2019, Germany

Centre for Computational Brain Research 2019, IIT Madras

Interspeech 2018, Hyderabad

Neuromorphic Computing Workshop 2018, IISc Bangalore

Centre for Computational Brain Research 2018, IIT Madras

Brain Modes 2017, National Brain Research Centre, New Delhi

Non Curricular Skills

Languages English • Tamil • Telugu