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 - 2020	**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	Python • Matlab • C • C++ • Java • ASP.Net • PHP • MySQL
Tools	Numpy • PyTorch • Tensorflow • Keras • Git • LaTeX • EEGLab

Professional Experience

Apr 2020 - Present	**Data Science Associate Consultant**, *ZS Associates*, Bangalore. Applied research with machine learning models to identify potential patients from medical claims data to target pharmaceuticals

Jul 2019 - Feb 2020	**Project Associate**, *Indian Institute of Technology, Madras*, Chennai. Signal processing and speech synthesis for determined people in mobile technology
Dec 2016 - Jun 2019	**Teaching Assistant**, *Indian Institute of Technology, Madras*, Chennai. Half-Time Research Assistantship (HTRA) funded by MHRD, India
Aug 2014 - Jan 2017	**Programmer Analyst**, *Cognizant Technology Solutions India Pvt Ltd.*, Chennai. Full-stack development to build a 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 all the candidates
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

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