

SRIRAM VIJENDRAN

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<https://sriram98v.github.io/cv/>

EDUCATION

Iowa State University

Ph.D., Computer Science

Department of Computer Science

August 2021 - Present

SRM Institute of Science and Technology

Bachelor of Technology

Department of Electronics and Communications Engineering

June 2016 - May 2020

Overall Percentage: 82.5/100

TECHNICAL STRENGTHS

Computer Languages

Python, MATLAB, Javascript, C/C++, MySQL, Java, BASH

Software & Tools

Pspice, LaTeX, Tensorflow, Pytorch, Git

EXPERIENCE

Robert Bosch Center for Data Science and Artificial Intelligence

November 2020

November 2019 -

Undergraduate Research

- Development and deployment of Neural Network models for brain tumour segmentation
- Used 3D convolution for segmentation of MRI scan
- Model to be deployed in all state hospitals

AmberTag Analytics

September 2018 - December 2018 and December 2020 - May 2021

Apparel Classification

- Worked in a team of three people and Built Apparel Classifier using Deep Neural Networks.
- Used low-level Tensorflow API
- Conducted workshop for employees of AmberTag on building and deploying Deep Neural Network models

National University of Singapore

June 2018 - July 2018

Research Internship

- 1 of 183 participants selected throughout India.
- Hadoop basics and Map-Reduce using Cloudera
- Introduction to Hortonworks

IIT, Delhi

August 2018 - November 2018

Research Internship

- Studied the Microstates of the brain associated with perceiving vision.
- Publication in Press

ACADEMIC ACHIEVEMENTS

Ranked 1/200 Inter-department Physics project Competition, SRM University, 2016

Ranked 3/200 Robotics Competition, RoboTryst, 2014

Silver Medal Research Day, SRMIST, 2018.

COURSES

Online Certification

Introduction to Programming with MATLAB

Structuring Machine Learning Projects

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

Neural Networks and Deep Learning

Using Python to Access Web Data

Python Data Structures

Programming for everybody (Getting Started With Python)

Reinforcement Learning (CS6700 - IIT Madras)

POSITION OF RESPONSIBILITY

Next Tech Labs — Student Research Lab
McCarthy Lab

February 2018 - Present
SRMIST

- Syndicate of McCarthy Lab
- Mentor at McCarthy lab

PROJECTS

EEG DREAMWALKER — IIT, DELHI

- Building models to predict vision from EEG signals by making use of microstate estimation in EEG signals, under the guidance of Prof. Tapan Gandhi. Uses 64-channel EEG recordings from brain vision for training data. Training data collected from blind patients before eye transplant surgery and after eye transplant surgery.

PARKINSONS DETECTOR — MEMBER, MINSKY LAB

- Implemented a simple shallow neural network to detect early onset parkinsons in a patient by making use of their audio waveform. Dataset was pulled from UCI Machine Learning Datasets. Final test Accuracy is 81

PUBLICATIONS

S. Vijendran and R. Dubey. Deep online sequential extreme learning machines and its application in pneumonia detection. ICITM, 2019 University of Cambridge.