

# SRIRAM VIJENDRAN

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

## EDUCATION

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### Iowa State University

Ph.D., Computer Science

Department of Computer Science

*August 2020 - 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

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### Computer Languages

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

### Software & Tools

Pspice, LaTeX, Tensorflow, Pytorch, Linux

## EXPERIENCE

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### RBCDSAI

*Undergraduate Research*

November 2019(Ongoing)

- 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

*Apparel Classification*

September 2018 December 2018

- 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

*Research Internship*

June 2018 July 2018

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

### IIT, Delhi

*Research Internship*

August 2018

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

## ACADEMIC ACHIEVEMENTS

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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

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### 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

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**Next Tech Labs — Student Research Lab**  
*McCarthy Lab*

February 2018 - Present  
*SRMIST*

- Syndicate of McCarthy Lab
- Mentor at McCarthy lab

## PROJECTS

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### EEG DREAMWALKER — IIT, DELHI(ONGOING)

- 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

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