

# Sudharshan T R

Pursuing MTech. AI at IISc. An avid learner



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## SKILLS

Python

NLP

C++

Tensorflow

Machine Learning

Deep Learning

## INTERESTS

Basketball

Gaming

Music

## EDUCATION

### B-Tech CS

PES University

06/2019 - 05/2023

CGPA: 8.75

### M-Tech AI

Indian Institute of Science

08/2024 - 05/2026

## PROJECTS

### Mini HDFS: Big data course final project

- The Hadoop Distributed File System developed here can store and retrieving files in a hierarchical namespace.
- The files are stored in a distributed fashion. It can perform Map-Reduce operation.
- [Github link:](#)

### Meaning is all you need: Capstone project

- This project aims to develop a multi-lingual neural machine translation model capable of translating between L languages where the number of parameters increase linearly wrt L.
- Every language has an encoder-decoder pair where the encoder is expected to convert an input sentence into a language agnostic vector which the decoder can convert back into a sentence.
- [Paper draft:](#)

### Mini keras

- The project provides an interface like keras while the implementation is written using only numpy.
- It currently supports Dense, Sequential layer. It also supports various optimization algorithms like SGD, Adam, RMSProp
- [Github link:](#)

### A cluster-embedding algorithm

- This algorithm makes use of the fact that items in the same ideal cluster have similar relationships with other ideal clusters.
- Using this fact, if this relationship is quantifiable, an embedding(vector) can be created for every item based on its relationship with other clusters.
- K-means clustering can be done based on this embedding to come up with new clusters.
- [Github link:](#)

## WORK EXPERIENCE

### Intern in fake drivers team

nVIDIA

01/2023 - 07/2023

Tasks:

- Enabled dis/assembly of traces with parent surface of surface\_view to be map.
- Made trace assembler to not create a physical file for those surfaces with ZEROS t3d command.
- Removed Hwcygwin dependency of fake driver workflows.
- [Completion certificate:](#)

### Internship

CCBD@PESU

05/2021 - 07/2021

Tasks

- Worked on developing hardware accelerators for Convolution Neural Networks

## ACHIEVEMENTS

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### Gate CSE 2024 rank 12

*Obtained a rank of 12 in the above exam where 1.2 lakh participated. [Attached scorecard](#)*

### PESSAT rank: 167

*The entrance exam for PESU with around 20000 students writing the same*