

Sudharshan T R

Completed my B-Tech majoring at Computer Science and Engineering at PES University. Love solving problems, an avid learner



trsudharshan2001.st@gmail.com



07019071039



Bengaluru, India



linkedin.com/in/sudharshan-tr-a11238219



github.com/sudh001

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

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

CERTIFICATES

MRD Scholarship for 1st and 4th sem

CERTIFICATES

Deep Learning Specialization

Offered by deeplearning.ai via Coursera

Algorithms Specialization

Offered by Stanford via Coursera

NLP Specialization

Offered by deeplearning.ai via Coursera

ACHIEVEMENTS

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