Sudharshan T R

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

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

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