Dhruva Kashyap

Education

Degree	Institute	% /CGPA	Year
B. Tech. (Computer Sc.) 8th Sem.	PES University, Bangalore	9.65/10	2018-present
Class XII	(CBSE) Sindhi High School, Bangalore	96.4%	2018
Class X	(CBSE) Sindhi High School, Bangalore	10/10	2016

- **CNR Rao Merit scholarship (top 2%)** in semesters 1, 2, 3, 4, 5 & 6 at PES University.
- **First Runner up** in the NeurIPS 2020 Competition, "Predicting Generalization in Deep learning".
- **Co-authored Journal paper** "Methods and Analysis of The First Competition in Predicting Generalization of Deep Learning" - Accepted for publication in "PMLR post proceedings - Competition Track@NeurIPS2020".
- **Co-authored Journal Paper** "Image Captioning using Reinforcement Learning with BLUDEr Optimization" - Published in "Pattern Recognition and Image Analysis" Springer Journal, Issue 4, Vol. 30, 2020.
- **Proposed "Cloud-based Evaluation policies"** at the IEEE CCEM 2020 Conference Student Project Showcase Proposal.
- **CBSE Certificate of Merit** for standing in the **top 0.1% of Class XII** examination in Physics.

Skills

Programming Languages: Proficient in C, Python, Bash Scripting, C++.
Technological tools in which I am experienced: Git, Docker, PyTorch(XLA), Tensorflow, C++ STL.
Technological Skills: Generic Programming, Design Patterns

Work-Experience

Visa, Inc.
Project Intern, May-August 2021
- Developed a **Named Entity Recognition** system using **Deep Learning** in TensorFlow.

Centre for Cloud Computing and Big Data
Summer Intern, June-July 2020, PES University
- Built a **Cloud-based web application** to facilitate project management.

Centre for Data Science and Applied Machine Learning
Summer Intern, June-July 2019, PES University
- Developed an **Image Captioning** system using **Reinforcement Learning** in PyTorch.
- Developed a **new scoring metric** called the **BLUDEr;** Results comparable to state-of-the-art models.

Academic Projects at PES University

- **Shape-Texture conflicts in CNNs(2021-Present)**

Redesigning CNNs to handle shape texture cue conflicts.

- **C++ Runtime Garbage collection system(2020)**

Implemented a garbage collection system for C++ utilizing concepts such as Template metaprogramming and SFINAE.

- **Greenest parts of Bangalore(2020)**

Designed a system to find the areas of Bangalore with the largest extent of green cover, on a pseudo-distributed Apache Hadoop cluster.

- **YACS (Yet Another Centralized Scheduler)**

Simulated a scheduling framework to manage and allocate the resources of the cluster to the different jobs in the mapreduce workload.

Competitions

Competition	Conducted by	Result	Year
Predicting Generalization in Deep Learning	NeurIPS	1st Runner Up	2020
Hash Code	Google	Ranked 3074	2021
eYantra Robotics Competition	IIT Bombay	Pre-final Round	2018

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