Akash Gupta

B. Tech – Electronics and Communication Engineering - IIT, Dhanbad

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EXPERIENCE

TransmuteAI — Deep Learning Intern
May 2022 - July 2022

Literature review of various code modularization techniques, code modularization and combining the power of various ways of Binarization, Pruning, Distillation and Quantization for an upcoming open-source tool.

CyberLabs, IIT-ISM — Member
July 2021 - Present

The official tech club of IIT-ISM, where we read research papers, complete the standard machine learning courses, participate in kaggle contests and various hackathons together.

TransmuteAI — Data Annotation Intern
October 2020 - November 2020

Collected data and annotated them for research purposes.

PROJECTS

UltraMNIST Classification Benchmark
February 2022 - June 2022

- Played a key role in the creation of the UltraMNIST dataset.
- Developed multiple baselines for the standard and budget-aware benchmark.
- Co-authored a research paper.

Systematic Benchmarking of Quantization methods in Deep Learning
May 2022 - Present

- Co-developing quantization models for an open-source project on bench-marking of model compression methods.
- Scientific literature review, implementation of quantization methods and running experiments for an upcoming scientific paper.

Bosch's Age and Gender Prediction

- Made Age and Gender prediction model using pytorch for InterIIT 2022.

Code:https://github.com/gakash2k01/Bosch_AG-Prediction

Bot for Flipkart Grid 3.0
June 2021 - February 2022

- Created and automated a set of four bots for the challenge with my knowledge of openCV and algorithm

Code: https://github.com/gakash2k01/Flipkart-GRID_3.0

PUBLICATIONS

UltraMNIST Classification: A Benchmark to Train CNNs for Very Large Images
*D. Gupta, U. Bamba, A. Thakur, **A. Gupta**, S. Sharan, E. Demir, D.K. Prasad*
[NeurIPSs 2022 Datasets and Benchmarks (Submitted)]

KAGGLE

Active participation in Vision-Verse, Image-Classification - 2, UltraMNIST Classification challenge, Happy Whale: Whale and Dolphin Identification, 30 Days of ML and PetFinder.my: PetPawpularity Contest

EDUCATION

Indian Institute of Technology (ISM),
Dhanbad — Bachelor of Technology in Electronics and Communication Engineering
NOV 2020 - PRESENT   **CGPA – 6.69**

Base PU College, Bangalore 12th - 85%
St. Basil's School, Basti 10th - 94%

SKILLS

- **Programming :** C/C++, Python, Matlab, GNU Octave
- **Machine Learning :** Pytorch, Tensorflow, OpenCV
- **Web Development :** HTML

ACADEMIC ACHIEVEMENTS

- **JEE Advanced 2020** : AIR 4498
- **JEE Mains** : 99 percentile
- **BitSat score** : 366/450

POSITIONS OF RESPONSIBILITY

- Python Programming Mentor at Being Artifex Skillathon
- Cyberlabs Machine Learning member.

COURSES & CERTIFICATES

- Machine Learning course by Andrew NG
- Deep Learning courses by deeplearning.ai
- CS231n offered by Stanford University