



Akash Gupta

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



20JE0082

+91-7355987585

@ 20je0082@ece.iitism.ac.in

LinkedIn: <https://www.linkedin.com/in/akash-gupta-023639200/>

EXPERIENCE

Cyberlabs, IIT-ISM — Member

July 2021 - Present (5 Months)

Completed multiple courses on Coursera. Read multiple research papers. Participated in kaggle contests as a team. Built the various models and algorithms on python from scratch.

Being Artifex, IIT-ISM — Python Programming Mentor in Skillathon

March 2021 - July 2021 (5 Months)

Mentored over 150 students and helped them create projects on python. Taught them the basic concepts and took doubt sessions, tests and evaluated their projects for the skillathon.

TransmuteAI — Data Annotation Intern

October 2020 - November 2020 (2 Months)

Helped collect data and annotated them for research purposes. Meanwhile, supervising other 3 members of the team.

PROJECTS

ML Bootcamp — Completed

Implemented some of the Machine Learning algorithms from scratch. These included Linear regression, Logistic regression.

Tech stack used- Python, Pandas, Numpy, Matplotlib

https://github.com/gakash2k01/ml_bootcamp

Bot for Flipkart Grid 3.0 — Completed

Helped automate our bot with the knowledge of openCV, so that it can work in extreme conditions where the various sensors might fail to work.

Tech stack used - Python(cv2 library)

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

Pet Pawpularity Score Prediction — Completed

Using images and a set of metadata to predict a 'Pawpularity Score' for the various images of dogs and cats given.

Happywhale - Completed

Using a set of 51k images of varying images of whales and dolphins to train models to identify the 15.6k individuals from the photos containing usually just their fin.

Image Classification - 2 - Completed

A simple 11 class image classification problem for a fashion company. The test+train image folder had a total of 50k images. Obtained an accuracy of 72% with the top competitor being at 76%.

UltraMnist - Completed

Mnist digit classification is well known among machine learners for supervised learning, but Ultramnist is completely different from the traditional Mnist Classification task. A training and test set of 28k images each with multiple mnist digits of various sizes hidden in a noisy background, whose sum is the labels provided was the dataset for this Kaggle competition.

Alternating Compressed/DeCompressed Training of Deep Neural Networks - Ongoing

Reading the research paper, reproducing the scores and then preparing the modularized code for the same, so that it can be used for further research work under transmute.ai's competition, the Trail. The results have already been reproduced and the modularised code is being prepared for the same.

EDUCATION

- B.Tech, Electronics and Communication Engineering at IIT (ISM) Dhanbad 2020 - 2024

GPA: 7.01/10

- Senior Secondary (XII), Base PU College, Bangalore (Karnataka Board) - 2019 - 84.50%

- Secondary (X) St. Basil's School, Basti (ICSE board) - 2017 - 94.50%

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.
- Member of the Machine Learning department at Cyberlabs.

Courses

- CS231n by Stanford University
- Machine Learning course by Andrew NG
- The five deep learning courses of deeplearning.ai

EXTRACURRICULARS

- Competitive Coding
- Member of ISM Boxing Club.