Adrish Dey

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EDUCATION

NETAJI SUBHASH ENGINEERING COLLEGE
B.Tech - Computer Science and Engineering
Expected May 2021 | Kolkata, India
CGPA (4 Semesters): 7.16 / 10

GURUDAS TARASUNDARI INSTITUTION
Grad. May 2017 | Berhampore, Murshidabad, India
WBCHSE: 82.4%

MARY IMMACULATE SCHOOL
Grad. May 2015 | Berhampore, Murshidabad, India
ICSE: 94.33%

LINKS

Github:// **captain-pool**
LinkedIn:// **captain-pool**
YouTube://
UCc6GiWDMPOuCDhngnwLVZrw
Twitter:// **@captain__pool**

TEACHING AND MENTORING

Machine Learning Trainer | I&We
Jun 2019 - Jul 2019 | Kolkata
Provided mandatory Industrial Training to a group of 43 Final Year students on Machine Learning with TensorFlow.

Mentor @ Google Code In 2019 | TensorFlow
2nd December 2019 - April 2020 | Online
Invited to Mentor Students from age 13 - 17, to work open source with the TensorFlow Team as part of Google Code In 2019
(`https://g.co/gci`)

Coding Mentor | Zoo Hackathon
9th - 10th November | Kolkata
Invited by Bengal Chamber of Commerce and US Consulate Kolkata to mentor participating teams for Zoo Hackathon.

SKILLS

PROGRAMMING
Work Experienced
• Python• C#
• Shell • C++
Familiar:
• MySQL • Linux Kernel API
• Arduino• PHP
• Javascript • HTML5/CSS

EXPERIENCE

APPLIED RESEARCH INTERN | rephrase.ai
December 2019 - Present| Bangalore, Karnataka

- Working on building Levenberg-Marquardt Optimizer, optimized for handling sparse Jacobians, required by the core feature extractor.
- Working on lip expression translation between unpaired expression vectors, using adversarial training on cycle consistency.

GOOGLE SUMMER OF CODE STUDENT | TensorFlow
May 2019 - August 2019 | Online

- Implemented and trained Enhanced Super Resolution GAN (https://arxiv.org/pdf/1809.00219.pdf) to export to `https://tfhub.dev`
- Implemented GAN Distillation on ESRGAN to reduce inference time, and built a Proof of Concept media player which performs video frame Super Resolution @ 5 Frames per second.

More of the project description can be found here.
`https://github.com/captain-pool/GSOC`
`https://summerofcode.withgoogle.com/projects/#4662790671826944`
References:
• `https://github.com/tensorflow/datasets/pulls?q=is%3Apr+author%3Acaptain-pool`
• `https://github.com/tensorflow/tensorflow/pulls?q=is%3Apr+author%3Acaptain-pool`
• `https://github.com/tensorflow/tensorflow/pulls?q=is%3Apr+author%3Acaptain-pool`

COMPUTER VISION AND MACHINE LEARNING INTERN | Covicas - I&We
January 2019 - March 2019 | Kolkata, India
Building a Face Recognition based security system, running on a distributed network of Raspberry Pi.

AWARDS

2019	2958th Global	Google Hash Code 2019
2018	National	NASA SpaceApps Challenge Finalist
2018	2nd/150 teams	NASA SpaceAppsChallenge Regional
2018	Regional	ACM Kolkata Chapter B.Tech Awards Finalist

PROJECTS

PASSGRUGAN
Built, PassGRUGAN a Generative Model for generating passwords which uses GRU Units to capture the Temporal Dependency which PassGAN by Hitaj et.al failed to capture. A linear combination of Wasserstein Loss and gradient penalty was used to calculate the difference between the generated probability distribution and the actual probability distribution of the data, while restricting the gradients from vanishing or exploding. This project got accepted for final presentation at B.Tech Project Awards, 2018 organized by ACM chapter of Kolkata, India.

SHADOW FIGHTERS | HACKATHON
Created an Unity 3D VR Game,with a team of 4 members at HackInTheNorth.This Game connects with the PC Webcam and uses In Browser Tensorflow.JS to estimate human pose and Shadow Fight in the Virtual World, without the need for any Extra Hardware.
`https://github.com/subzero-hackinthenorth`

6.042 RULES! | Website
Built, 6.042 Rules!,a free online course for MIT's 6.042J Class, coordinated by students who have taken this class. Around 300 students from around the globe registered for this course, during it's lifetime. We got acknowledged by the creator of the course, Professor Frank Thompson Leighton.
`https://github.com/captain-pool/6.042-Rules-Website`