Anjishnu Mukherjee

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EDUCATION

IIEST(Indian Institute of Engineering Science and Technology), Shibpur

Bachelor of Technology • Computer Science — *July. 2017 - June. 2021*

CGPA : 9.63/10 • Department Rank : 1 • Thesis paper (Project Website)

EXPERIENCE

Wells Fargo

Program Associate - Data & Analytics — *July 2021 - May 2022*

- Prepared PowerBI dashboards to track adoption metrics for Microsoft Teams for 170,000+ users.
- Created a PowerBI solution for analysing Zoom license usage for 15,000+ users.
- Built a drift management pipeline in python using paramiko and regex to gather and compare configurations.

EndoX

Machine Learning Researcher • Project Website — *April 2020 - June 2021*

- Collaborated with researchers from **University of Toronto** and **Massachusetts General Hospital**.
- Used ResNet variants, Vision Transformers and model compression techniques.
- Obtained 95%+ accuracy for classification tasks on private datasets, improving on previous SOTA score of 80%.
- Published 2 abstract papers, paper 1 & paper 2 in Digestive Disease Week (DDW) 2021.

Google Summer of Code

Student Developer • mlpack — *June 2020 - August 2020*

- Developed features for Computer Vision including layers like Pixel Shuffle, Instance Norm and Spatial Dropout.
- Implemented Multi Label Soft Margin loss and wrote a comprehensive test-suite for other loss functions.
- Maintaining a personal repository for feature demonstrations and a blog for explanations.

University of Bremen

Research Intern • DAAD WISE — *March 2020 - August 2020*

- Formulated a heuristic algorithm for finding Time of Impact for Real-time Continuous Collision Detection.
- Benchmarked and integrated the C++ implementation into the Collision Detection pipeline of the CollDet library.

Udacity

Consultant • Computer Vision ND — *May 2019 - May 2020*

- Explained computer vision fundamentals 1:1 for 100+ students as 1 of 12 mentors worldwide.
- Reviewed 250+ project submissions from students across the world for all course projects.

Omdena

Machine Learning Engineer — *Jan 2020 - March 2020*

- Worked on the Creedix Challenge as part of a team of 45 engineers from 27 countries.
- Scraped data from multiple sources and extracted relevant features for unsupervised learning methods.

Jadavpur University

Undergraduate Researcher — *May 2019 - July 2019*

- Reviewed literature in the domain of Semantic Image Inpainting.
- Implemented a PyTorch baseline for the paper *Probabilistic Semantic Inpainting with Pixel Constrained CNNs*.

PROJECTS

Deploying a Sentiment Analysis Model

GitHub repository — *June 2019*

- Constructed a recurrent neural network(RNN) to determine the sentiment of a movie review using the IMDB dataset.
- Learnt the usage of Amazon Sagemaker and also how to deploy web apps integrated with Deep Learning models.

Image Captioning

GitHub repository — *March 2019*

- Executed transfer learning technique with an auto-encoder architecture.
- Trained on the COCO dataset from Microsoft Inc.(about 4 million images) converging at a loss of nearly 2%.

SKILLS

Technical skills C/C++, Python, PyTorch, Numpy, Git, GitHub

Relevant Courses Natural Language Processing, Machine Learning, Data Mining, Compilers, Operating Systems

Interests Natural Language Processing, Interpretability, Fairness