Anjishnu Mukherjee

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EDUCATION

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

Calcutta, India

Bachelor of Technology • Computer Science

July. 2017 - Exp. June. 2021

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

EXPERIENCE

Wells Fargo

Program Associate - Data & Analytics

July 2021 - Present

- 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 Python pipeline using Paramiko to gather device configurations for drift management of Crestron devices.

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.
- Achieved 95%+ accuracy for classification tasks on private datasets. Improved on previous best 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 and Spatial Dropout from recent research papers.
- Maintaining a personal repository for feature demonstrations and a blog for explanations.

University of Bremen

Research Intern • DAAD WISE

March 2020 - August 2020

- Hypothesised a new algorithm to calculate Time of Impact for Real-time Continuous Collision Detection in Non-deformable objects using C++.
- Benchmarked and integrated the implementation into the Collision Detection pipeline of the CollDet library.

Udacity

Consultant • Computer Vision ND

May 2019 - May 2020

- Utilized my understanding of Computer Vision fundamentals to interact 1:1 with 100+ students as 1 of 12 mentors worldwide..
- Reviewed 250+ project submissions from students across the world for all course projects with a time commitment of 15 hrs a month.

Omdena

Machine Learning Engineer

Jan 2020 - March 2020

- Worked on the Creedix Challenge as part of a team of 45 engineers from 27 countries.
- Augmented the limited dataset by scraping from multiple sources and extracting relevant features for unsupervised learning methods.

Jadavpur University

Undergraduate Researcher

May 2019 - July 2019

- Reviewed literature in the domain of Semantic Image Inpainting.
- Implemented the paper ***Probabilistic Semantic Inpainting with Pixel Constrained CNNs*** (Dupont and Suresha), using PyTorch.

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, Computer Vision, Healthcare, Interpretability, Fairness