Arnab Ghosh

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PUBLICATIONS

DGPose:Disentangled Semi-supervised Deep Generative Models for Human Body Analysis
R. de Bem, A.Ghosh, T. Ajanthan,O. Miksik, N. Siddharth, and P. Torr
arXiv:1804.06364

Multi Agent Diverse GANs
A.Ghosh ,V.Kulharia, V.Namboodiri, P.Torr, P.Dokania
CVPR 2018

Message Passing Multi Agent GANs
A.Ghosh, V.Kulharia ,V.Namboodiri
arXiv:1612.01294

Contextual RNN-GANs for Abstract Reasoning Diagram Generation
A.Ghosh, V.Kulharia, A.Mukerjee, V.Namboodiri, M.Bansal
AAAI 2017

The Application Slowdown Model
L.Subramanian, V.Seshadri, A.Ghosh, S.Khan, O.Mutlu
MICRO 2015

RESEARCH INTERESTS

Deep Learning , Computer Vision , NLP

EDUCATION

UNIVERSITY OF OXFORD
DPhil in Computer Science
Expected Graduation: July 2022 | Oxford, UK

IIT KANPUR
BTech in Computer Science
Graduated: July 2016 | Kanpur, IN
Major CPI: 9.0 / 10.0

COURSEWORK

UNDERGRADUATE
Probabilistic Machine Learning
Kernel Methods in Machine Learning
Machine Learning Tools & Techniques
Cognitive Science
Applied Probability and Statistics
Approximation Algorithms
Functional Programming
Probability And Statistics
Operating Systems
Theory Of Computation
Discrete Mathematics

EXPERIENCE

OXFORD UNIVERSITY | PhD advised by Prof. Philip Torr
Oct 2017 – Present | Oxford, UK

- Designing multi agent generative models with message passing and mode specializing capabilities based on Game Theoretic Principles
- Designing and analyzing experiments to figure out failure cases of Generative Models
- Designed a generative model for pose which could be used for Pose Transfer in images in the wild as well as applied to a fashion database.

ADOBE RESEARCH | Research Intern Advised By Eli Shechtman Richard Zhang Oliver Wang
June 2018 – Sep 2018 | Seattle, US

- Designed a modified Residual Block for Generator and Discriminator based models
- Designing a model to have multi-class generation properties from rough cues such as scribbles

TECHNICAL UNIVERSITY OF MUNICH | Research Intern advised by Prof. Matthias Niessner
June 2017 – Aug 2017 | Munich, DE

- Designed a generative model for textures along with geometry from single view supervision. Extended the Octree Generating Networks for textures and colors for high resolution adaptive resolution of voxel colors.

WE CREATE PROBLEMS | Research Intern
Nov-Dec 2016 | Bangalore,IN

- Designed a model to generate questions and answers from technical documentations which can be used for quicker assignment of projects based on skills of employees.
- Advised an intern to create automatic descriptions and summary of the code written for Business Analytics tools such as R.

TTI-CHICAGO | Research Intern advised by Prof. Mohit Bansal
May 2016 – Sep 2016 | Chicago, USA

- Worked on Visual Question Answering using image graph techniques. Designed several models based on Dynamic Memory Networks, using both textual and visual features.

ADOBE RESEARCH | Research Intern
May 2015 – July 2015 | Bangalore, IN

- Designed a model to estimate the viewers of a media story engaged in different activities & designed a predictive model to assist media companies to predict context & activity of the user while reading on a mobile device.

CARNEGIE MELLON UNIVERSITY | Summer Undergraduate Research Intern advised by Prof. Onur Mutlu
May 2014 – July 2014 | Pittsburgh, USA

- Designed a model for estimating slowdown of a particular app when running alongside Co-Running threads using the Cache Access Rate.
- Wrote Synthetic Benchmarks which targeted a definite Memory Access Pattern which would cause interference to the test Applications.