

Education

- **Montreal Institute for Learning Algorithms (MILA)** Montreal, Canada
PhD in Machine Learning 2017 - Present
- **Indian Institute of Technology, Kharagpur** Kharagpur, India
Integrated M.Sc. in Mathematics and Computing, CGPA (8.44/10) 2011 - 2016

Publications

- **HoME: a Household Multimodal Environment** ([arxiv](#))
Simon Brodeur, Ethan Perez, Ankesh Anand*, Florian Golemo*, Luca Celotti, Florian Strub, Jean Rouat, Hugo Larochelle, Aaron Courville*
International Conference on Learning Representations (ICLR) Workshop Track, 2018
- **We used Neural Networks to Detect Clickbaits: You won't believe what happened Next!** ([arxiv](#))
Ankesh Anand, Tanmoy Chakraborty, Noseong Park
European Conference on Information Retrieval (ECIR), 2017
- **MMGAN: Manifold Matching Generative Adversarial Networks** ([arxiv](#))
Noseong Park, Ankesh Anand, Joel Ruben Antony Moniz, Kookjin Lee, Tanmoy Chakraborty, Jaegul Choo, Hongkyu Park, Youngmin Kim
International Conference on Pattern Recognition (ICPR), 2018
- **FairScholar: Balancing Relevance and Diversity for Scientific Paper Recommendation**
Ankesh Anand, Tanmoy Chakraborty, Amitava Das
European Conference on Information Retrieval (ECIR), 2017

Work Experience

- **VISA Inc.** Bangalore, India
Software Engineer August 2016-August 2017
 - Full stack development for the VISA Developer Platform
- **HackerEarth** Bangalore, India
Backend Engineering Intern May-July 2015
 - Developed a new problem recommendation engine for HackerEarth, built resume parsing services and a real-time notification system for end-users.
- **Google Summer of Code** Remote
Student Developer May-August 2015
 - Built an online analytics platform for BRL-CAD which provides aggregated analytics for logs and performance metrics collected across different machines and platforms.
- **Max Planck Institute for Software Systems** Kaiserslautern, Germany
Visiting Scholar, Large Scale Internet Systems Group May-July 2014

- Worked with an incubated startup named AirCloak to build tools for anonymized aggregated analytics using noise augmentation and selective filtering.

Projects

- **Deep Neural Networks for Detecting Clickbaits**

Advisors: Prof. Noseong Park, UNC Charlotte

- Developed a Bi-directional LSTM architecture for detecting clickbaits using distributed word embeddings and character embeddings generated via 1-D Convolutional Neural Networks
- Experimental results on a dataset of news headlines show that our model outperforms existing techniques for clickbait detection with an accuracy of 0.98 and ROC-AUC of 0.99

- **Adversarial Neural Cryptography in TensorFlow**

<https://github.com/ankeshanand/neural-cryptography-tensorflow>

- Published the first open-source Tensorflow implementation of the Adversarial Neural Cryptography paper by Google Brain.
- Trained an Adversarial model based on Convolutional Neural Networks that allowed two neural networks to communicate secretly with each other in presence of an adversary.

- **Predicting Helpfulness of online Product Reviews**

Advisors: Prof. Pawan Goyal, IIT Kharagpur

- Used a combination of structural and semantic properties of text such as informativeness, readability, emotions etc. to predict helpfulness of online product reviews
- Trained an LSTM based Recurrent Neural Network over word embeddings of reviews to further improve accuracy of prediction results

Honors and Awards

- **Hult Prize, 2015:** Regional Finalist at the Hult Prize 2015 in Dubai: the worlds largest student competition for social entrepreneurship
- **Penn Apps, 2016:** Finalist at PennApps Spring 2016, America's largest collegiate hackathon.
- **Inter IIT Tech Meet, 2015:** Winner of the OpenSoft contest for developing an Android app that makes Information accessible to areas with low connectivity using Wifi P2P networks .
- **Scholarships:** Recipient of the NTSE (National Talent Search Examination) scholarship (2009-11) awarded by NCERT, India and the INSPIRE Scholarship (2012-16) awarded by the Department of Science and Technology India.

Technical Skills

- **Programming Languages:**

- **Proficient:** Python, JavaScript, C++
- **Intermediate:** Java, MATLAB

- **Machine Learning Libraries:** Keras, TensorFlow, Theano, scikit-learn, NLTK, Pandas

- **Web Development:** Django, Flask, NodeJS, ReactJS, HTML5, CSS3, MySQL