Ankesh Anand

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ankeshanand

Education

- **Indian Institute of Technology, Kharagpur** — Kharagpur, India
  Integrated M.Sc. in Mathematics and Computing, CGPA (8.44/10) — *2011 - 2016*

Publications

- We used Neural Networks to Detect Clickbaits: You won't believe what happened Next! (arxiv)
  Ankesh Anand, *Tanmoy Chakraborty, Noseong Park*
  Accepted, To Appear: **European Conference on Information Retrieval (ECIR), 2017**
- FairScholar: Balancing Relevance and Diversity for Scientific Paper Recommendation
  Ankesh Anand, *Tanmoy Chakraborty, Amitava Das*
  Accepted, To Appear: **European Conference on Information Retrieval (ECIR), 2017**

Research Projects

- **Deep Neural Networks for Detecting Clickbaits**
  Advisors: Prof. Noseong Park, UNC Charlotte
  - Deceloped 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
- **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
- **Extracting information and user behavior on Twitter during Disaster events**
  Advisors: Prof. Pawan Goyal, IIT Kharagpur
  - Developed a Gradient Boosted Trees based classifier that segregates tweets into situational, opinions, political and relief classes with an 80-85% in-event and 75-80% cross-event accuracy
  - Analyzed the tweet patterns and user behavior in multiple languages that led to interesting insights.
- **FairScholar: Balancing Relevance and Diversity for Scientific Paper Recommendation**
  Advisors: Tanmoy Chakraborty, IIT Kharagpur
  - Developed a scientific paper search engine to provide a diverse set of results over a collection of 3 million papers.

- Leveraged reinforced random walks on a citation graph to balance prestige and diversity among search results.

Work Experience

- **Stanford Scholar Initiative** Remote
  Contributor *September 2016-Present*
  - Helped create short summaries and video talks for popular Machine Learning papers to make ML research accessible to a wider audience.
- **VISA Inc.** Bangalore, India
  Software Engineer *August 2016-Present*
  - 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.

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