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ANKESH ANAND

ankeshanand.com
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EDUCATION

Kharagpur, IN **Indian Institute of Technology, Kharagpur** **2011 – May 2016 (expected)**

- 5 year Integrated MS in Mathematics and Computing, CGPA: **8.50 / 10**
- Coursework: Algorithms; Object Oriented Design; Database Management Systems; Computer Architecture; Probability and Statistics; Information Retrieval; Artificial Intelligence; Speech and Natural Language Processing
- MOOCs: Machine Learning, Neural Networks

PROJECTS

Predicting Helpfulness of online Product Reviews **Master's Thesis Project, ongoing**

Advised by Prof. Pawan Goyal (CSE, IIT Kharagpur) and Prof. Bibhas Adhikari (Mathematics, IIT Kharagpur)

- Used a combination of structural and semantic properties of review text such as informativeness, readability, emotions etc. to improve the state of the art methods in predicting helpfulness of online product reviews.
- Trained a multi-layer Recurrent Neural Network over word embeddings of reviews to predict helpfulness score.
- Technologies used: Python, NLTK, Theano, scikit-learn

Extracting information and user behavior on Twitter during Disaster events **Fall 2015**

- Developed an SVM based classifier that segregates tweets into situational, opinions, political and relief classes with an 87% in-event and 81% cross-event accuracy.
- Analyzed the tweet patterns and user behavior in multiple languages that led to interesting insights.
- Paper submitted to **ACM CHI 2016, San Jose.** Technologies used: Python, Pandas, scikit-learn

DisCern **Fall 2014**

- 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.
- Technologies used: Python, JavaScript, Django, NetworkX, Redis

LiveCheers **Summer 2014**

- Used the Twitter API to grab geo-tagged tweets during the FIFA World Cup 2014.
- Produced a real-time heatmap highlighting team-support using a sentiment analysis of those tweets.
- Technologies used: Python, NLTK, CartoDB, RabbitMQ

WORK EXPERIENCE

Python / Django Developer Intern **HackerEarth** **Summer 2015**

- Created a problem recommendation engine using an ensemble of collaborative and content-based filtering.
- Developed a tool to fill out a user's profile on HackerEarth using his LinkedIn information. Within one month of its launch, over 2300 users and 25% of the new users used this tool to create / update their profiles.
- Implemented a service to publish real-time notifications to users across the site using the Pusher API.

Student Developer **Google Summer of Code** **Summer 2014**

BRL-CAD : an open-source 3D solid modelling software

- Developed a system that automatically collects logs generated by BRL-CAD Benchmark suite, a set of tests that analyze a given system's performance and provide linearly comparable metrics of overall performance.
- Created an online platform for a concise report and comparison of system performance metrics.
- Developed an aggregated view of the test results for BRL-CAD core developers.

Research Intern **Max Planck Institute for Software Systems** **Summer 2013**

AirCloak: A privacy focused product that provides anonymized user analytics.

- Created a module to provide aggregated location analytics that were anonymized using noise addition & filtering.
- Developed a real-time dashboard to monitor key metrics of AirCloak's infrastructure.
- Advised by Prof. Paul Francis, Large Scale Internet Systems group

ADDITIONAL EXPERIENCE AND AWARDS

- **Regional Finalist (Dubai)** at **Hult Prize 2015,** the world's largest student competition for social entrepreneurship.
- **Technology Coordinator** at the **Students' Gymkhana, IIT Kharagpur** for the session 2013-14.

LANGUAGES AND TECHNOLOGIES

- **Proficient:** Python, JavaScript, C++, MySQL, Django, Redis, NLTK, scikit-learn, Pandas
- **Familiar:** Java, Lua, HTML, CSS, NodeJS, ReactJS, MongoDB, Kafka, RabbitMQ