ANKESH ANAND

ankeshanand.com github.com/ankeshanand

EDUCATION

Kharagpur, IN

Indian Institute of Technology, Kharagpur

2011 - 2016

- 5 year Integrated MS in Mathematics and Computing, CGPA: 8.44 / 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

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 an LSTM based Recurrent Neural Network over word embeddings of reviews to predict helpfulness score.
- Paper submitted to AAAI 2017, San Francisco. 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 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.
- · 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.
- Performed keyword expansion to ensure that the semantically correlated articles are also included in the results.
- Leveraged reinforced random walks on a citation graph to balance prestige and diversity among search results.
- Technologies used: Python, JavaScript, Django, NetworkX, Redis

Protray.Me (PennApps) Spring 2016

- Built an Android app to generate dynamic written accounts of a person's life leveraging several APIs.
- Finished among the **Top 10** teams at PennApps, the largest collegiate hackathon in the US and were awarded the Two Sigma API Prize.
- · Technologies used: Java, Android, Python, Flask.

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

Summer 2013

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.

Visiting Scholar

Max Planck Institute for Software Systems

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.

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.
- Gold, Open Soft at the Inter IIT Tech Meet, 2015 for developing an information dissemination app for rural India.
- Recipient of the NTSE(National Talent Search Examination) scholarship by NCERT, India from 2008-11.

LANGUAGES AND TECHNOLOGIES

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