Ankit Mathur

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Education

UC Berkeley - B.S., Electrical Engineering and Computer Science - 2018

TA for Network Architecture and Introductory EE, HKN Rating: 4.7/5
ML coursework: Convex Optimization, Machine Learning, Advanced Probability and Random Processes, Advanced Linear Algebra, Artificial Intelligence, Discrete Math, Computational Models of Cognition
Core EECS coursework: Databases, Algorithms, Operating Systems, Internet Architecture, Computer Security

Bellarmine College Preparatory

GPA: 4.62, SAT: 2400, National Merit Scholar, National AP Scholar, Presidential Scholars Program

Experience

Software Engineering Intern, Facebook — Summer 2017

- On the M Assistant/AI team, built a distributed storage system that helped scale NLP efforts for wit.ai.
- Designed and implemented a system to span other NLP backends within FB.

Research Assistant, UC Berkeley — Fall 2016-Present

- Working to publish research with Professor David Bamman on building a deep-learned model to understand persuasion techniques in human language.
- Combined convolutional models (e.g. LSTMs) with unsupervised models to account for minimal tagged data.

Software Engineering Intern, Facebook — Summer 2016

- Developed a new product feature from scratch on the Android app for Facebook within the post composer.
- Worked with Java/Android at a production level, shipped, and created notable improvement in core posting metrics.

Software Engineering Intern, Citrix — Summer 2015

- Built a machine-learning model in Python to detect irregular internet traffic patterns and learn worldwide attack patterns. Gained experience with Internet-scale data analytics.

Projects (see github.com/ankmathur96 for complete list)

- Using Markov Chains to Model Traffic and Rank Importance of Infrastructure - developed a probability model for a road network and simulated traffic by iterating over a Markov chain (won first in the EE126 contest).
- Election Sentiment - used a supervised learning model to learn sentiment from tweets and deployed it on AWS to track sentiment for tweets about US election candidates and live update on a webapp.
- Automatic Sentence Generator - using alignment-based NLP to learn a language model from a given text.

Publications

Personalized Memory Testing for Names using Email Archives - Sudheendra Hangal, Allyson Rosen, Ankit Mathur, Monica Lam, BrainKDD workshop at KDD 2014

- Developed a system that generates personalized memory tests from users' email archives to detect early stages of cognitive disorders by parsing emails for significant life events.

Skills

- Strong in C, Python, PHP, Java, Clojure, SQL, Django, HTML/CSS.
- Experienced public speaker and presenter.