

Ankit Mathur

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Education

UC BERKELEY - B.S., ELECTRICAL ENGINEERING AND COMPUTER SCIENCE - 2018

Major GPA: 3.78, Upper Division GPA: 3.84 | 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

Experience

RESEARCH ASSISTANT, RISELAB @ UC BERKELEY

FALL 2017-PRESENT

- Using reinforcement learning to optimize data manipulation languages (like SQL) on distributed systems, targeting publication at VLDB 2018
- Working on coding Scala for policy learning and designing an API intended to integrate with Apache Spark

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 with Professor David Bamman on building a deep-learned model to understand persuasion techniques in human language, targeting publication at NACL.
- 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.

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 **Effect Of Phonemic Cuing On Recall Of Personally Relevant Names Derived From Email** - Allyson Rosen, Ankit Mathur, Monica Lam, Sudheendra Hangal, INS 2015

- 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.