

Alyssa H. Smith

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Education

Massachusetts Institute of Technology

Cambridge, MA

Bachelor's of Science. Cumulative GPA: 4.8

June 2017

Thesis: The Discourse: An Online Debate. Examines The Discourse, a community on Tumblr centered around the debate over asexual inclusion in the LGBTQ+ community.

Relevant Courses:

Geometric Folding Algorithms, Design and Analysis of Algorithms; Introduction to Machine Learning; Introduction to Inference; Linear Algebra; Introduction to Algorithms; Advanced Natural Language Processing; Online Machine Learning Algorithms; Network Cultures; Qualitative Methods; Aero-Astro Experimental Projects I

Skills

Programming Languages: Languages: Python, XML, Java, Javascript, HTML, Processing.

Programming (and related) Skills: web scraping, data cleaning, machine learning (regression, clustering, prediction, inference), neural networks (e.g. Theano), natural language processing, SQL, Git, Numpy, Pandas, scikit-learn, scipy, pytest, Redis, Elasticsearch, query parsing, graph databases, network analysis

Foreign Languages French (conversational); Japanese (basic)

Relevant Experience

Kensho Technologies Graph Data Engineer

Cambridge, MA – June 2017-present

Building and maintaining models, handling data ingestion, and designing services at a fast-paced startup.

Point. Software Engineer

Cambridge, MA – September 2016 - April 2017

Created machine learning models to help build an intelligent email client as part of the initial software team of this young startup.

Tumblr Product Analytics Intern

New York, NY – Summer 2016

Produced actionable insights through analysis of user data. Created a neural network language model of tags and clustered users based on site usage data.

Japanese Parser Undergraduate Research

Cambridge, MA – Fall 2015

Developed a corpus-based contextual browsing system and API to help Japanese language learners understand correct usage. Collaborated with a front-end developer to coordinate backend format with output in browsing system.

Berkman Center Summer Intern

Cambridge, MA – Summer 2015

Assessed the efficacy of municipal broadband programs in Massachusetts; published a MediaCloud [blog post](#) analyzing media coverage of the GamerGate controversy.

Open Technology Institute

Washington, DC – January 2015

Completed statistical analysis of broadband availability and adoption data to understand where and why gaps in access arise; worked on scraping data for OTI's annual Cost of Connectivity report.

Center for Civic Media UROP

Cambridge, MA – Fall 2014 - Spring 2015

Investigated how journalists' Twitter data can predict who they quote in their articles in order to affect gender bias in journalist citations.

Leadership and Projects

HKN Tutoring

Cambridge, MA – Spring 2016

Tutored peers for an introductory machine learning course.

MIT Committee on Curricula

Cambridge, MA – Fall 2015

Discussed changes to the curriculum and major programs; reviewed policy changes and suggested modifications to policies.

Co-chair, Academic Advisory Committee

Cambridge, MA – Fall 2015

Implemented improvements to the advising system and the undergraduate academic experience; coordinated with administration to figure out best practices and plan joint efforts.

HackMIT

Cambridge, MA – September 2015

Built a glove that powered a Twitter bot by using sensor data as a source of randomness.