Tovly Deutsch

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Education

HARVARD UNIVERSITY Cambridge, MA

A.B. in Computer Science and Linguistics. May 2020

Honors: Magna Cum Laude in Field (GPA: 3.92). High Honors. John Harvard Scholar.
Thesis: Linguistic Features for Readability Assessment
Coursework: Advanced Machine Learning (graduate), Data Structures & Algorithms, Computational Photography, Cloud Computing, Systems Programming, Linear Algebra, Phonological Theory, Probability.
Teaching: Teaching Assistant for Abstraction and Design in Computation. Led sections and office hours.

Publications

T. Deutsch , M. Jasbi, S. Shieber
Linguistic Features for Readability Assessment
Oral Presentation. [To appear in] Proceedings of the 15th Workshop on Innovative Use of NLP for Building Educational Applications at ACL 2020

A. Saleh, **T. Deutsch**[*], S. Casper[*], Y. Belinkov, S. Shieber
Probing Neural Dialog Models for Conversational Understanding
[To appear in] Second Workshop on NLP for Conversational AI at ACL 2020

Experience

FACEBOOK Menlo Park, CA

Software Engineer Intern May 2019 - August 2019

- Expanded Oculus referrals by exposing on surfaces using React Native, React, and Redux.
- Designed and implemented native share sheet functionality for sending referrals in the Oculus app.

ETSY New York, New York

Software Engineer Intern June 2018 - August 2018

- Improved listing quality by extracting structured data for editing nudges using React and Redux.
- Experimented with customer photos by building a photo section for listing pages using PHP and JS.

EDM ENTERPRISES

Contract Software Engineer May 2017 - May 2018

- Developed an asset tracking & reporting system for medical waste containers using CodeReadr APIs.

CLEAN CANS

Contract Software Engineer November 2016 - December 2017

- Developed a customer notification plugin using Twilio, Codereadr, and Woocommerce APIs.

Selected Projects

Learning Constraint Rankings with Sequence to Sequence Models
Explored the use of sequence to sequence models in learning constraint rankings in Optimality theory.

Analyzing Phonological Surfeit of the Stimulus in Neural Models
Explored the ability of language models to learn phontactic surfeit of the stimulus phenomena.

Google Sheets Add-On: Created 2 add-ons, Bulk Sheet Manager & Attendance Sorter with 150,000 users.