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.

SELECTED PUBLICATIONS

T. Deutsch , M. Jasbi, S. Shieber
Linguistic Features for Readability Assessment
Oral Presentation. Proceedings of the 15th Workshop on Innovative Use of NLP for Building Educational Applications (ACL 2020)

A. Saleh, **T. Deutsch**[*], S. Casper[*], Y. Belinkov, S. Shieber
Probing Neural Dialog Models for Conversational Understanding
Oral Presentation. Second Workshop on NLP for Conversational AI (ACL 2020)

EXPERIENCE

Facebook Menlo Park, CA
Software Engineer Intern May – Aug 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, NY
Software Engineer Intern Jun – Aug 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 – Dec 2017
- Developed an asset tracking & reporting system for medical waste containers using CodeReadr APIs.

SELECTED PROJECTS

Learning Constraint Rankings with Sequence to Sequence Models Oct – Dec 2019
- Used sequence to sequence models to learn constraint rankings in Optimality theory.

Analyzing Phonological Surfeit of the Stimulus in Neural Models Mar – May 2020
- Explored the ability of language models to learn phonotactic surfeit of the stimulus phenomena.

Network Visualizer Apr – May 2018
- Used Mininet and Ryu to create a tool for monitoring and debugging complex network traffic.

TECHNICAL SKILLS

Languages: Python, C++, OCaml, C, R, Javascript, PHP
Technologies: PyTorch, Fairseq, ParlAI, Keras, Halide, scikit-learn, React