Adithya Renduchintala
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RESEARCH INTERESTS

I am broadly interested in problems at the intersection of Machine Learning, Machine Translation, Natural Language Processing, User Modeling and Human Machine Interaction.

EDUCATION

PhD, Computer Science 2013 - Present
Johns Hopkins University, Baltimore, MD
Advisor: Philipp Koehn

MS, Computer Science, 2010 - 2012
University of Colorado, Boulder, CO

MS, Electrical Engineering, Arts Media and Engineering 2005-2008
Arizona State University, Tempe, AZ

BE, Electrical Engineering 2001-2005
Anna University, SRM Engineering College, Chennai, INDIA

PUBLICATIONS

Multi-Modal Data Augmentation for End-to-end ASR.
Adithya Renduchintala, Shuoyang Ding, Matthew Wiesner and Shinji Watanabe, Interspeech 2018.

ESPnet: End-to-End Speech Processing Toolkit
Shinji Watanabe, Takaaki Hori, Shigeki Karita, Tomoki Hayashi, Jiro Nishitoba, Yuya Unno, Nelson Enrique Yalta Soplin, Jahn Heymann, Matthew Wiesner, Nanxin Chen, Adithya Renduchintala and Tsubasa Ochiai, Interspeech 2018.

Knowledge Tracing in Sequential Learning of Inflected Vocabulary
Adithya Renduchintala, Philipp Koehn and Jason Eisner, Conference on Computational Natural Language Learning (CoNLL), 2017.

User Modeling in Language Learning with Macaronic Texts
Adithya Renduchintala, Rebecca Knowles, Philipp Koehn, and Jason Eisner. Annual Meeting of the Association for Computational Linguistics (ACL) 2016.

Creating interactive macaronic interfaces for language learning
Adithya Renduchintala, Rebecca Knowles, Philipp Koehn, and Jason Eisner. Annual Meeting of the Association for Computational Linguistics (ACL) Demo Session 2016.

Analyzing learner understanding of novel L2 vocabulary
Rebecca Knowles, Adithya Renduchintala, Philipp Koehn, and Jason Eisner, Conference on Computational Natural Language Learning (CoNLL), 2016.

Algerian Arabic-French Code-Switched Corpus
Ryan Cotterell, Adithya Renduchintala, Naomi P. Saphra and Chris Callison-Burch. An LREC-2014 Workshop on Free/Open-Source Arabic Corpora and Corpora Processing Tools. 2014.

Using Machine Learning and HL7 LOINC DO for Classification of Clinical Documents.
Adithya Renduchintala, Amy Zhang, Thomas Polzin, G. Saadawi. American Medical Informatics Association (AMIA) 2013.

Collaborative Tagging and Persistent Audio Conversations
Ajita John, Shreeharsh Kelkar, Ed Peebles, Adithya Renduchintala, Doree Seligmann Web 2.0 and Social Software Workshop in Conjunction with ECSCW. 2007.

Designing for persistent Audio Conversations in the Enterprise
Adithya Renduchintala, Ajita John, Shreeharsh Kelkar, and Doree Duncan-Seligmann. Design for User Experience. 2007.

Creating Serendipitous Encounters in a Geographically Distributed Community
Adithya Renduchintala, Aisling Kelliher, and Hari Sundaram. HCM Workshop in Conjuction with ACM. 2006.

EXPERIENCE

Research Intern 2012 - 2013
Duolingo, Pittsburgh, PA
- Prototyped a Chatbot system that detects and corrects word-ordering errors.
- Explored word embedding schemes which are robust to spelling errors.

Software Engineer 2012 - 2013
M*Modal, Pittsburgh, PA
- Developed SVM based clinical document classification system
- Feature Engineering for statistical models for document preprocessing (Tokenization, Chunking and Entity Detection)

Software Developer 2008 - 2012
Rosetta Stone, Boulder, CO
- Designed, prototyped and evaluated speech recognition based games for language learning.
- Prototyped a image-concept relation visualization tool for second language vocabulary learning.

Research Scientist Intern Summer 2007
Avaya, Collaborative Applications Group, Lincroft, NJ
- Developed an interactive graph based visualization tool to explore and annotate conference calls in enterprises.

Research Assistant 2006-2008
Arizona State University, Situated Multimedia Systems Lab, Tempe, AZ
- Designed and prototyped systems for serendipitous interactions in distributed workplaces.

CODING SKILLS

Advanced: Python, Java
Proficient: C/C++, Javascript, Jquery, NodeJs
Deep Learning Frameworks: PyTorch, Theano

COURSEWORK

Natural Language Processing (Fall '13), Graphical Models (Fall '13), Machine Translation (Spring '14), Algorithms (Spring '14), Machine Learning (Fall '14), Artificial Intelligence (Fall '15)

LANGUAGES

Fluent: English, Telugu
Proficient: Hindi, Tamil

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