

EDUCATION

- University of Massachusetts Amherst | M.S. in Computer Science** May 2019
Research Interests: Natural Language Processing (NLP), Deep Learning, KG.
- Manipal Institute of Technology | Btech. in Computer & Communication Engineering** June 2017
Thesis: Knowledgeable neural conversational agents grounded in context

PROFESSIONAL EXPERIENCE

ML Data Scientist **EBSCO Information Services** **Ipswich MA**
Summer 2019 - Present

- Collaborated to develop a state-of-the-art solution for structure extraction from scholarly PDFs to improve search and discovery of academic research content for our library customers
- Identified a gap and led negotiations with business stakeholders to plan, create, coordinated, & lead an NLP solution to efficiently perform sense disambiguation to enhance our autoindexing pipeline resulting in an \$800K/annum cost saving.
- Led the technical interviewing and onboarding for 2 junior data scientists on the team. Provided long-term active coaching and mentoring to set them up for continued success.
- Took on a hybrid **Product Owner** role to identify business problems within the organizations and design & develop NLP solutions ranging from search-guided-question-answering to abstractive summarization of millions of academic records.
- Adapting latest NLP advances like BERT to develop & deploy customized solutions for problems like article-type-classification, and matching & linking of billions of records at scale.

NLP Intern **Samsung Research America** **Mountain View CA**
Summer 2018

- NLP subject matter expert for the rollout of Samsung news service with over 50K daily active users
- Identified news matches, and built a recommendation engine to improve CTR by 64%

Graduate Researcher **Lexalytics** **Amherst MA**
Fall 2018

- Built a word sense disambiguation system for a sentiment analysis product that was covered by the media & featured on KDnuggets, and UMass Amherst's website.

Computer Vision Intern **Ideaforge** **Mumbai IN**
Summer 2015

- Planned & implemented image-stitching for drones used by the Indian paramilitary for disaster relief.

TECHNICAL SKILLS Python, C++, Java, Pytorch, SQL, Tensorflow, AWS Stack

RESEARCH AND PUBLICATIONS

- HyperCube accelerated Density Based Spatial Clustering for Application with Noise Set and Partitions @ NeurIPS 2019
 - Efficient Graph-based Word Sense Induction by Distributional Inclusion Vector Embeddings TextGraphs @ NAACL HLT 2018
 - Boomerang: Rebounding the consequences of reputation feedback on crowd sourcing platforms ACM UIST 2017
 - Designing a Constitution for a self-governing crowd sourcing marketplace Collective Intelligence Conference 2018
 - Intelligence analysis of Tay Twitter bot IEEE I3CI 2016
 - The rapidly changing landscape of conversational agents Preprint
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