

## KSHITIZ SETHIA

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### Education

#### New York University, Courant Institute of Mathematical Sciences

Master of Science in Computer Science (MS in CS)

**GPA: 3.914/4**

May 2016

- Fundamental Algorithms
- Statistical and Mathematical Methods
- Probabilistic Graphical Models (ongoing)
- Heuristic Problem Solving (ongoing)
- Machine Learning and Computational
- Natural Language Processing
- Production Quality Systems
- Statistics

#### Vellore Institute of Technology University, Vellore, India

Bachelor of Technology in Information Technology

**GPA: 8.76/10**

2011

- Algorithms
- Artificial Intelligence
- Probability and Statistics

### Projects

#### Acronym Disambiguation (Ongoing)

2015

- Deciding correct expansion of acronym in text, a problem similar to word sense disambiguation
- Performing near state-of-the-art on MSH Corpus
- **Approach:** regex, classification based on top TFIDF words, LDA (topic model) of document

#### Identifying degree of Diabetic Retinopathy

2015

- Built a system identifying degree of damage in retina of diabetic patients, achieved 78% accuracy
- **Approach:** image processing, balancing classes, deep learning (ConvNet)

#### Learning to summarize from Wikipedia

2015

- Created a system which summarizes Wikipedia articles using unsupervised and supervised approaches
- Devised a new method to measure sentence similarity; extracted semantics from paragraphs and sentences
- **Approach:** (unsupervised) graph based approach, (supervised) SVM with RBF kernel learning from document LDA, paragraph LDA and Word2Vec representations of current and nearby sentences

#### HTTP based mocker for any RESTful web server for Hewlett Packard

2013

- A web service which could mock any other RESTful web service in any state (web service up, down, error)

### Skills

- **Proficient:** Python, Java
- **Conversant:** C# ( .NET, MVC framework ), Lua ( torch ), ML, Scheme, NodeJS, OpenCV, JavaScript, jQuery, HTML, Ruby on Rails, JSON, XSLT, chunked MIME HTTP, C, Scala, Ada
- **Software Suites/Libraries:** gensim , nltk , MatLab , Octave, WireShark, GIT, SVN, InstallShield, Adobe Photoshop

### Professional Experience

#### System Software Engineer, Hewlett Packard Research & Development, Bangalore

2011 -2014

- Implemented the page scanning API for OXPd (a printer SDK) in C#
- Built a system which triggered automated build verification against virtual printers on GIT push
- Built a windows installer to deploy SDK on servers

#### Intern, eBay India Development Center, Chennai

2011

- Designed the SOAP for Giving Works vertical inside eBay.

### Awards and Activities

- Awarded highest year-end rating at Hewlett Packard.
- Four awards at Hewlett Packard for product-wide enhancements and quality of deliverables.