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

**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.