

KSHITIZ SETHIA

Jersey City, NJ ♦ +1 718 839 4550 ♦ kshitiz.sethia@nyu.edu ♦ [kshitizsethia.github.io](https://github.com/kshitizsethia)

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
- Realtime and Big Data Analytics

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.