KSHITIZ SETHIA

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Education

New York University, Courant Institute of Mathematical Sciences

Master of Science in Computer Science (MS in CS)

i science (ivis iii cs)

GPA: 3.84/4

May 2016

- Fundamental Algorithms

- Statistical and Mathematical Methods

- Probabilistic Graphical Models- Natural Language Processing

- Heuristic Problem Solving- Production Quality Systems

 Machine Learning and Computational 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

Heuristic Problem Solving

2015

- Approximate solutions to NP-hard problems: Simulated Annealing, Ant Colony Optimization, Genetic Algorithms
- Adversarial game playing: Alpha-Beta Pruning

Distributed Question Answering System

2015

- Software to answer Who and What questions in natural language, using Wikipedia as a knowledge source.
- Uses NLTK, Hadoop MapReduce and Pig queries.

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 the 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, balanced re-sampling, deep learning (ConvNet)

Learning to summarize from Wikipedia

2015

- Created a system which summarizes Wikipedia articles using unsupervised and supervised approaches
- **Approach**: (unsupervised) graph based approach, (supervised) SVM with RBF kernel learning from document LDA, paragraph LDA and Word2Vec representations of current and nearby sentences

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: scikit learn, gensim, nltk, Hadoop, Pig, MatLab, Octave, WireShark, GIT, SVN

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

Awards and Activities

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