

Pankesh Bamotra

Mob : (412) 636 1222

Mail : pbamotra@{andrew,cs}.cmu.edu

Github : pbamotra

Education

MCDS	CARNEGIE MELLON UNIVERSITY, SCHOOL OF COMPUTER SCIENCE. MASTER OF COMPUTATIONAL DATA SCIENCE - DEC. 2016 - GPA 3.75 . ▷ <i>Intro to Computer Systems.</i> ▷ <i>Machine Learning.</i> ▷ <i>Search Engines.</i> ▷ <i>Probability and Mathematical Statistics I.</i> ▷ <i>Natural Language Processing.</i> ▷ <i>Probabilistic Graphical Models.</i> ▷ <i>Multimedia Databases and Data Mining.</i>
B.Tech CSE	VELLORE INSTITUTE OF TECHNOLOGY. BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING - MAY 2013 - GPA 9.24 . ▷ <i>Data structures and algorithms.</i> ▷ <i>Operating systems.</i> ▷ <i>Linear algebra.</i> ▷ <i>Computer programming and problem solving.</i> ▷ <i>Digital Logic.</i> ▷ <i>Algorithm design and analysis.</i>

Experience

PayPal India Private Limited	SOFTWARE ENGINEER. JUN '13 - JUL '15. Worked with Open Analytics Platform group to develop self-service database provisioning tool for analysts and developers ▷ <i>Refactored legacy code into a maintainable and testable stack.</i> ▷ <i>Developed plug and play solution for Qlikview and Teradata.</i> ▷ <i>Delivered SQL based solution to analyse clickstream data.</i> ▷ <i>Worked with one of the first agile teams at PayPal.</i>
PayPal India Private Limited	SOFTWARE DEVELOPMENT INTERN. JAN '13 - JUN '13. Worked with seller risk management to create early warning dashboards ▷ <i>Developed a SQL based solution to analyse buyer account habits.</i> ▷ <i>Early warning indicator reports used by teams across NA and EMEA for fraud analysis.</i>

Projects

Info Retrieval	IMPLEMENTED A SEARCH ENGINE ON LUCENE. ▷ <i>Supports exact match (Ranked Boolean).</i> ▷ <i>Best match using Okapi BM25 and Language model.</i> ▷ <i>Sequential dependency model.</i> ▷ <i>Query expansion.</i> ▷ <i>LeToR enabled.</i>
ML	BRAIN fMRI IMAGE DATA ANALYSIS. ▷ <i>Classification of fMRI images using C-SVM.</i> ▷ <i>Prediction of fMRI image voxels using ElasticNet Ridge Regression.</i>
NLP	QUESTION GENERATION AND ANSWERING SYSTEM. ▷ <i>Wikipedia dataset.</i> ▷ <i>CLI interface to generate and answer questions.</i> ▷ <i>Generate semantically, grammatically, fluent questions and answers.</i>
Prob. Graphical models	CONTEXT GENERATIVE RECURRENT NEURAL NETWORK LANGUAGE MODEL.

Technical

Advanced	Java 7, Spring framework
Intermediate	Python 2.7, Scikit-learn, R, C, Oracle 10g, Hadoop, Spark, Teradata, Qlikview

Publications

IOSR Journal (Sep '12)	SECURING GROUP COMMUNICATION IN PARTIALLY DISTRIBUTED SYSTEMS. SYMMETRIC KEY CRYPTOGRAPHY, KEY DISTRIBUTION.
IJSCE (Nov '12)	SECURE TRANSMISSION OF GRAYSCALE IMAGES USING DISCRETE FOURIER TRANSFORM. IMAGE PROCESSING, SECURITY.
IJARCSSE (Dec '12)	IMAGE ENCRYPTION USING PIXEL SHUFFLING. ENCRYPTION.
IJAIS, FCS (Jan '13)	LRUD SHIFT BASED ENCRYPTION METHOD USING MATRICES. ENCRYPTION, SECURITY, LINEAR ALGEBRA.
IJAIS, FCS (May '13)	HADOOP AND RISK ANALYTICS. ANALYTICS, FINANCE, BIG DATA.