

Premadurga Kolli

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EDUCATION	Stony Brook University (SUNY) , New York	CGPA : 3.83/4.0
	Master of Science in Computer Science	Jan 2014 - May 2015 (Expected)
	PESIT , Bangalore	CGPA : 8.33/10.0
	Bachelor of Technology in Computer Science	Aug 2005 - May 2009
PROFESSIONAL EXPERIENCE	Microsoft India Pvt. Ltd.	Experience : 4.5 years
	Technical Lead	Feb 2012 - Dec 2012
	<ul style="list-style-type: none">Led a team of 15 SQL Server Support Engineers and served as their escalation point for all technical issues.Wrote efficient internal tools/scripts to automate troubleshooting and analysis of SQL related issues.	
	SQL Server Product Engineer	Oct 2009 - Feb 2012
	<ul style="list-style-type: none">Handled business-critical operations related to SQL Server technologies like data recovery, performance, replication, performance tuning, clustering issues, disaster recovery, etc.Experienced in taking about 300+ interviews and hired about 15+ candidates.	
RESEARCH PROJECTS	Intern	Aug 2008 - Oct 2009
	<ul style="list-style-type: none">Trained on Microsoft SQL Server along with Windows, Exchange Server and Active Directory.	
	Efficient Cache-Oblivious Parallel Algorithms	Languages : Cilk Plus
	Improved the span of 4 algorithms (matrix multiplication, floyd-warshall, viterbi and protein accor-dion folding) by balancing the trade-off between space and cache-complexity. Paper under review.	
GRADUATE PROJECTS	Online Fraud Detection in Review Data	Languages : Python, Matlab
	We exploited the network effect among reviewers and products for detecting fake reviews for Yelp challenge dataset and Apple iTunes dataset.	
	Authorship Attribution using Graph-based Techniques	Languages : Java
	We exploited stylistic elements in syntactic structure of NY Times articles for building complete models of each author's style to distinguish between them using machine learning techniques.	
	Pathology Analytical Imaging Portal on Hadoop	Languages : Java, JSP
	In this project, we developed a web application which runs on Hadoop cluster and it supports spatial queries on large images stored in MongoDB, a noSQL database.	
	Early Prediction of IMDB Ratings of Hollywood Movies	Languages : Java
	We considered the writing style (NLP) of the movie script and also the external factors such as star rating, budget etc. for predicting the IMDB user rating before it's release. Sentiment Analysis of movie reviews was also done to enhance this project.	
SKILLS	Search in PACMAN and Sudoku Solver	Languages : Python
	We implemented search algorithms for PACMAN - DFS, BFS, UCS, A star with heuristics and also CSP Problems like Sudoku backtracking, MRV heuristic, forward checking and arc consistency.	
	Predicting the Price of Art at Auction	Languages : Python
	We predicted the price of art at Sotheby's/Christie's auction using data science techniques. We built linear regression, k-nearest neighbor regression and decision tree regression models. To further enhance these models, we extracted image features for the paintings using openCV.	
	Languages	Java, Python, Matlab, C++, R, Cilk Plus, Javascript
	Technologies	Microsoft SQL Server, Mysql, MongoDB, Hadoop, LaTeX
	Interest Areas	Algorithms, Machine Learning, Data Mining, Data Science, NLP, AI
HONORS AND AWARDS	<ul style="list-style-type: none">Received ACE (Architect of Excellence) award twice as a Product Engineer in Microsoft.Won several Spot Recognition awards in Microsoft.Secured 4th rank in B.Tech Computer Science (PESIT) with 97.5 percentile.Data Science Specialist with Coursera certification in 9 courses spanning the field.	