## Vamshi Pasunuru

Contact Information	CSA Department, Indian Institute of Science Bangalore, 560012, India.	Mobile: (091) 8105186170 E-mail: vamshipasunuru@gmail.com WWW: http://pvam.github.io	
Research Interests	Database Systems (Query Optimization, Data Analytics), Algorithms.		
Education	Indian Institute of Science (IISc), Bangalore, India Department of Computer Science and Automation (CSA) M.E., July 2014-16		
	<ul> <li>Thesis: "Predicting Query Execution Time using Statistical Techniques"</li> <li>Focus : Database Systems</li> <li>Advisor: Prof. Jayant R. Haritsa</li> </ul>		
	<b>Osmania University</b> , Hyderabad, India.		
	B.E, Computer Science and Engineering , June, 2014		
Experience	<b>Technical Project Leader, Huawei I</b> Design and develop a monitoring soluti Database.	ndia July 2016- present on for one of the in-house Massively Parallel Processin	nt ng
	Teaching Assistant, Database Mana	gement System, CSA Aug-Dec 201	.5
Selected Projects	<b>Predicting Query Execution Time using Statistical Techniques June 2015 - June 2016</b> PostgreSQL query optimizer cost model is insufficient for accurately predicting execution time. In this work, we explored the use of machine learning techniques to predict the cost of a given query plan. Complete details including the code and experimental results are available in <u>this</u> github repo.		
	<b>Finding similarity across relations using Support estimation</b> January-May 2015 Developed a sampling based estimation algorithm to find the similarity across relations. Goal is to find the similarity by looking at a fraction of data at both source and/or target and come up with relevant attributes to estimate similarity.		
	Enhancing NECTAR January-May 2015 NECTAR(Nash Equilibria CompuTAtion Resource) is a software tool for computing Nash equilibria of strategic form games and extensive form games. As part of the project, we integrated an open source linear programming solver "lpsolve" into the package and also made it web-accessible.		15 ria )en
	Analytics on Encrypted DatabaseAugust-December 2014Developed techniques to perform Nearest Neighbour Queries on 2-dimensional encrypted data. The solution deals with partitioning encrypted data into Voronoi cells to have minimal data transfer over network. We have also proposed an extension to deal with higher dimensional data.		
	Wordtrix [B.E project] August 2013-June 2014 Built an on-line multi-player game based on Boggle (An old word puzzle). As part of this, we developed algorithms to generate games which have sufficient score, protocols to ensure accurate timing and to maintain the user's progress.		
	<b>Free SMS</b> Built a mobile app which aggregates seven	[Hobby project] August 2011-December 201 al free on-line SMS portals each having certain restriction	<b>13</b> ns.

	As the Services are unreliable, app automatically picks the best service among all feasible services. Got 1 Million downloads in windows phone app store alone!	
Others	<ul> <li>Secured All India Rank- 86 in Graduate Aptitude Test in Engineering (GATE)- 2014.</li> <li>Google APAC 2016 University Graduates Test Round C: 209/1416.</li> <li>Microsoft Imagine Cup 2012 Software Design (India) Top 33 Team.</li> <li>Won multiple hackathons including Intel innovation challenge at IIIT Hyderabad and Windows 8 camp 2012 at Bangalore.</li> <li>Semi-active competitive programmer. Topcoder : Rating 1294, Country rank 110/2300. Handle : vamshipasunuru</li> <li>Morgan Stanley Codeathon 2015, Rank: 168/ 4153.</li> <li>World Cup Semifinals - University Level CodeSprint, Rank: 280/ 1411.</li> <li>Worke</li> </ul>	
References	<ol> <li>Prof. Jayant R. Haritsa , Chair, CSA Dept, IISc. (haritsa@dsl.serc.iisc.ernet.in)</li> <li>Prasad M Deshpande, STSM and Manager, IBM Research, Bangalore.(prasadmd0@gmail.com)</li> </ol>	
DECLARATION	I hereby declare that all the details furnished above are true to the best of my knowledge and belief.	

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