

Akanksha Bindal

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Education	Bachelor of Technology in Computer Engineering (COE) Delhi Technological University, (formerly Delhi College of Engineering (DCE)) 12th Grade	80.9% (Ranked in top 5 %) 95.6 %	Aug 2012-July 2016 (Expected) 2012
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Awards and Honours	<ul style="list-style-type: none"> Ranked in top 5 % of Computer Science Department in all three years and top 4 % in class. Certificate of Merit and Scholarship by Abu Dhabi Government for securing school topper position in grade 12 and grade 10 Certificate of Merit, National Physics Olympiad, for ranking in top 2% of participating students Student Body Head Girl Certificate of Proficiency in French, DELF Examination Certificate of Merit and Best Student Title among 700 students 	2012 & 2010 2011 2011-2012 2010 2011-2012
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Internships	<p>I. Signal Processing & Bio-Medical Imaging Lab (SBI) Indraprastha Institute of Information Technology, Delhi, India Advisor: Prof. Chetan Arora & Prof. Anubha Gupta</p> <ul style="list-style-type: none"> Design algorithm to segment MR structures using Deep Learning architecture. Implement denoising based sparse stacked autoencoder using Theano on K20GPU accelerator Temporal segmentation of egocentric videos using convolutional neural networks <p>II. Robotics & Machine Intelligence Lab Delhi Technological University, Delhi, India Advisor: Prof. S. Indu</p> <ul style="list-style-type: none"> Digitization of palm leaf inscription images using non-linear principal component analysis. Comparison with fast-ICA, linear PCA and NGFICA techniques Designed robot using dual tone multiple frequency technology to perform motion <p>III. SanDisk, Bangalore, India</p> <ul style="list-style-type: none"> Developed a self-organizing file management system based on a particular theme as selected by user: <i>timeline</i> or format based, using C# on Visual Studio Imported the same functions onto Android Application for file organization on the mobile phone Wrote python scripts to improve system debug process. <p>IV. Leaf Labs, Delhi, India <i>(College startup rated as top 10 in upcoming startups Outlook India 2014 edition)</i></p> <ul style="list-style-type: none"> Worked on Backend technology. Deployed a RESTful API, built on Node JS using Express framework, MongoDB NoSQL database and mongoose library. Integrated and successfully implemented Android Push Notifications using Google Cloud Messaging API. Deployed services on AWS Amazon (EC2) cloud and S3 modelled on PaaS. 	<p>Jan '14 - Present</p> <p>Oct '14 - Present</p> <p>Jun-Aug, 2015</p> <p>Dec-Feb, 2015</p>
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Academic Projects	Hybrid Recommender System - Here		April 2015
	<ul style="list-style-type: none"> Designed a recommender system targeted to problems of cold start & sparsity Uses weighted combination of Factored Item Similarity Model, SGD as content-based filtering and Euclidean similarity model 		
	SMS Classifier App - Here		Dec 2014
	<ul style="list-style-type: none"> Spam/ham classifier Android App built on Eclipse IDE Naive Bayes model for probabilistic learning is implemented in R 		
	Feature Based Image Classification - Here		November 2014
	<ul style="list-style-type: none"> Image matching on CalTech dataset based on SIFT, SURF features 		
Technical Skills	Languages	Proficient : C,C++, C#, R, Python	
		Familiar : Java (basic), Html ,CSS, JavaScript, JQuery, NodeJS	
	Operating Systems	Linux, Android	
	Applications	RStudio, OpenCV, Matlab, Octave, Eclipse IDE, RoboMongo, LaTeX	
	Application Server	Apache, MySQL	
Academic Courses	Computer Engineering		
	<ul style="list-style-type: none"> Distributed Computing Artificial Intelligence Mobile Computing Compiler Design Web Technology & Java Prog. Information & Network Security Computer Architecture I, II Computer Graphics Digital Image Processing Theory of Computation Computer Network Database Management Systems Operating Systems Algorithm Design & Analysis Data Structures 		
	<ul style="list-style-type: none"> Microprocessors & Interfacing Analog Electronics Digital Systems Design Computer Systems Organisation 		
	Basic Sciences		
	<ul style="list-style-type: none"> Physics I & II Mathematics I, II, III, IV Chemistry I & II 		
	Other Engineering Courses		
	<ul style="list-style-type: none"> Engineering Drawing Machine Drawing Manufacturing Processes Report Writing Programming I, II & III Industrial and Organisation Managerial Economics 		
Test Results	GRE: 333/340 (Verbal: 163/170, Quantitative: 170/170, Analytical Writing: 5.5/6)		Apr, 2015
	TOEFL: 116/120 (Reading: 30/30, Listening: 30/30, Speaking: 27/30, Writing: 29/30)		Sept, 2015
Membership	<ul style="list-style-type: none"> The Society of Robotics (SR). The Computer Society of India (CSI). 		
Technical Publication	Bindal, Akanksha, "Digitization of Palm-leaf Inscription Images using Non Linear Principal Component Analysis", Journal of Computer Technology and Application (Sent & Awaiting Result)		
	Bindal, Akanksha, "Map vs Unordered Map: An Analysis on Large Datasets", International Journal of Computer Applications, 127(2):5-9, October 2015		
	Bindal, Akanksha, "Evaluation of Traditional and semantic-based Search Engines", NCACR, New Delhi, 2014		
Extra Curricular Activities	<ul style="list-style-type: none"> Editor, DTU Times, Official Newsletter of DTU 		Oct, 2014
	<ul style="list-style-type: none"> Technical Head, Software Engineering, the Society of Robotics, DTU 		Feb, 2015
	<ul style="list-style-type: none"> Editor-in-Chief, CSI-DTU chapter. 		Feb, 2015
	<ul style="list-style-type: none"> Captain, Table Tennis DTU Girls 		Jan, 2015