

# Akanksha Bindal

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Senior undergraduate, Department of Computer Engineering  
Delhi Technological University (formerly Delhi College of Engineering)

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<b>Education</b>	<b>Bachelor of Technology</b> in Computer Engineering (COE)	80.9%	Aug 2012-July 2016
	Delhi Technological University, Delhi, India	(Ranked in top 5 %)	(Expected)
	<b>Class XII<sup>th</sup></b>	95.6 %	2012
	Abu Dhabi Indian School, Abu Dhabi, UAE	School Topper	

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<b>Awards and Honours</b>	<ul style="list-style-type: none"><li>▪ <b>Ranked in top 5 %</b> of Computer Science Department in all three years and top 4 % in class.</li><li>▪ <b>Certificate of Merit</b> and <b>Scholarship</b> by Abu Dhabi Government for securing school topper position in grade 12 and grade 10</li><li>▪ <b>Certificate of Merit</b>, National Physics Olympiad, for ranking in top 2% of participating students</li><li>▪ Student Body <b>Head Girl</b></li><li>▪ Certificate of <b>Proficiency in French</b>, DELF Examination</li><li>▪ <b>Academic Excellence Award &amp; Best Student Title</b>, Abu Dhabi Indian School</li></ul>	2012 & 2010 2011 2011-2012 2010 2011-2012
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<b>Internships</b>	<b>I. Signal Processing &amp; Bio-Medical Imaging Lab (SBI)</b> <b>Indraprastha Institute of Information Technology, Delhi, India</b> Advisor: Prof. Chetan Arora & Prof. Anubha Gupta <ul style="list-style-type: none"><li>• Developed algorithm to segment MR structures using Deep Learning architectures</li><li>• Implemented denoising based sparse stacked autoencoder using Theano on K20 GPU accelerator</li><li>• Temporal segmentation of egocentric videos using convolutional neural networks</li></ul>	Jan '14 - Present
	<b>II. Robotics &amp; Machine Intelligence Lab</b> <b>Delhi Technological University, Delhi, India</b> Advisor: Prof. S. Indu <ul style="list-style-type: none"><li>• Digitization of palm leaf inscription images to retrieve highly correlated text for project sponsored by Department of Science &amp; Technology, Govt. of India</li><li>• Used non linear PCA. Comparison with fast-ICA, linear PCA and NGFICA techniques</li><li>• Designed mobile alarm dialer robot using DTMF technology with password protection to detect temperature changes in surroundings.</li></ul>	Oct '14 - Present
	<b>III. SanDisk, Bangalore, India</b> <ul style="list-style-type: none"><li>• Developed a self-organizing file management system based on a theme as selected by user: <i>timeline</i> or format based, which is now into its alpha testing phase.</li><li>• In-depth big data analysis on read write performance of Hard Drive by plotting histograms and graphs to determine optimum operational conditions</li><li>• Wrote python scripts to improve system debug process.</li></ul>	Jun-Aug, 2015
	<b>IV. Leaf Innovation, Delhi, India</b> (College startup rated as top 10 in upcoming startups Outlook India 2014 edition) <ul style="list-style-type: none"><li>• Worked on Backend technology. Deployed a REST api, built on Node JS using Express framework, MongoDB (NoSQL) database and mongoose library.</li><li>• Integrated and successfully implemented Android Push Notifications using Google Cloud Messaging API.</li><li>• Deployed services on AWS Amazon (EC2) cloud and S3 modelled on PaaS.</li><li>• Helped in SAFER device design by integrating heat sensor on the arduino pro board.</li></ul>	Dec-Feb, 2015

<b>Academic Projects</b>	<b>FINDING THOUGHTFUL COMMENTS FROM SOCIAL MEDIA - <a href="#">Here</a></b>		May 2015
	<ul style="list-style-type: none"> <li>Detect insightful comments by studying correlations in linguistic text features</li> </ul>		
	<b>HYBRID RECOMMENDER SYSTEM - <a href="#">Here</a></b>		April 2015
	<ul style="list-style-type: none"> <li>Designed a recommender system targeted to problems of cold start &amp; sparsity</li> </ul>		
	<b>SMS CLASSIFIER APP- <a href="#">Here</a></b>		Dec 2014
	<ul style="list-style-type: none"> <li>Spam/ham classifier Android App with complete UI and working SMS module</li> <li>Naive Bayes model for probabilistic learning is implemented in R. <b>Achieved highest marks in class</b></li> </ul>		
<b>Technical Skills</b>	<b>CRAWLER FOR MOBILE APPS</b>		Oct 2015
	<ul style="list-style-type: none"> <li>Developed data pipeline for processing data crawled on Python using Scrapy from Android apps. Pipeline includes data cleansing, analysing and deleting obsolete apk data</li> </ul>		
	<b>FEATURE BASED IMAGE CLASSIFIER - <a href="#">Here</a></b>		Nov 2014
<b>Technical Skills</b>	<b>Languages</b>		
	<i>Proficient</i> : C/C++, C#, R, Python <i>Familiar</i> : Java, Html ,CSS, JavaScript, JQuery, NodeJS		
	<b>Operating Systems</b>		
	Linux, Android		
<b>Technical Skills</b>	<b>Application/SDK</b>		
	OpenCV, Matlab, Octave, Eclipse IDE, RoboMongo, LaTeX, Qt Theano, Caffe, Lasagne, Apache Pig, Hadoop		
<b>Technical Skills</b>	<b>Application Server</b>		
	Apache, MySQL		
<b>Academic Courses</b>	<b>Computer Engineering</b>		
	<ul style="list-style-type: none"> <li>Distributed Computing</li> <li>Artificial Intelligence</li> <li>Mobile Computing</li> <li>Compiler Design</li> <li>Information &amp; Network Security</li> <li>Computer Architecture I, II</li> <li>Computer Graphics</li> <li>Digital Image Processing</li> <li>Theory of Computation</li> <li>Computer Network</li> <li>Database Management Systems</li> </ul>		
	–Data Structures		
	–Microprocessors & Interfacing		
	–Operating Systems		
	–Algorithm Design & Analysis		
	<b>Basic Sciences</b>		
	<ul style="list-style-type: none"> <li>Physics I &amp; II</li> <li>Mathematics I, II, III, IV</li> <li>Chemistry I &amp; II</li> </ul>		
	<b>Other Engineering Courses</b>		
	<ul style="list-style-type: none"> <li>Engineering &amp; Machine Drawing</li> <li>Industrial and Organisation Managerial</li> <li>Economics</li> </ul>		
<b>Test Results</b>	<b>GRE</b> : 333/340 (Verbal: 163/170, Quantitative: 170/170, Analytical Writing: 5.5/6)		Apr, 2015
	<b>TOEFL</b> : 116/120 (Reading: 30/30, Listening: 30/30, Speaking: 27/30, Writing: 29/30)		Sept, 2015
<b>Membership</b>	<ul style="list-style-type: none"> <li>The Society of Robotics (SR).</li> <li>The Computer Society of India (CSI).</li> </ul>		
<b>Technical Publication</b>	<ul style="list-style-type: none"> <li>Bindal, Akanksha, “ Segmentation of Basal Ganglia Sub-Structures in Brain MR Images Using Denoising Based Stacked Sparse Autoencoder”, <i>IIIT-D archives</i>, (To be sent to MICCAI 2016)-<a href="#">Here</a></li> </ul>		
	<ul style="list-style-type: none"> <li>Bindal, Akanksha, “Map vs Unordered Map: An Analysis on Large Datasets”, International Journal of Computer Applications, 127(2):5-9, October 2015 - <a href="#">Here</a></li> </ul>		
	<ul style="list-style-type: none"> <li>Bindal, Akanksha, “Evaluation of Traditional and semantic-based Search Engines”, NCACR, New Delhi, 2014 - <a href="#">Here</a></li> </ul>		
<b>Extra Curricular Activities</b>	<ul style="list-style-type: none"> <li><b>Editor</b>, DTU Times, Official Newsletter of DTU</li> </ul>		Oct, 2014
	<ul style="list-style-type: none"> <li><b>Technical Head</b>, Software Engineering, the Society of Robotics, DTU</li> </ul>		Feb, 2015
	<ul style="list-style-type: none"> <li><b>Editor-in-Chief</b>, CSI-DTU chapter.</li> </ul>		Feb, 2015
	<ul style="list-style-type: none"> <li><b>Captain</b>, Table Tennis DTU Girls</li> </ul>		Jan, 2015
	<ul style="list-style-type: none"> <li><b>Community service</b>: Stop Hunger Now(Packaging meals), Anubhav Shiksha Kendra (Teaching Underprivileged children), Wake the Lake program–Tree Plantation Drive</li> </ul>		June, 2015