

# Madhur Chauhan

Pre-Final Undergraduate  
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EDUCATION	<b>Indian Institute of Technology (Indian School of Mines), Dhanbad</b> <i>B.Tech in Computer Science and Engineering</i> July 2016-2020 (Expected) <b>CGPA:</b> 9.76/10.0 (In top 5 amongst 150+ batchmates)		
	<b>St. Ann's School, Bopal, Ahmedabad</b> (July 2014-July 2016) Passed higher secondary examination (10+2 CBSE) with Physics, Chemistry and Maths.		
	<b>D.A.V. International School, Ahmedabad</b> (April 2011-July 2014) Passed matriculation examination with <i>perfect</i> 10.0/10.0 CGPA.		
OBJECTIVE	Developing computational models which aims in solving real world problems effectively & efficiently applying skills and knowledge I gained so far.		
PROJECTS	<b>Generic Suffix Array Data Structure</b> ( <i>Currently Working</i> ) <i>String Data Structure</i> Self Aiming at generic and efficient implementation of suffix array data structure.		
	<b>Automatic Image Segmentation using Graph Cuts</b> ( <i>Winter 2017</i> ) <i>Graph Theory and Unsupervised Learning</i> Dr. Sushanta Mukhopadhyay Automatic image segmentation of images with distinguishable background using graph cuts and used unsupervised learning model as Gaussian mixture Model to segment image.		
	<b>Detection of rotation of Convex object using chain code</b> ( <i>Monsoon 2017</i> ) <i>Digital Image Processing</i> Dr. Sushanta Mukhopadhyay Developed an algorithm which uses directional Freeman Chain Code to detect rotation of two input object images, after some preprocessing (normalisation).		
	Report, Presentation, Results, Source Code available at <a href="https://github.com/madhur4127/project/">github.com/madhur4127/project/</a>		
COMPUTER SKILLS	<ul style="list-style-type: none"><li>• <b>Programming languages:</b> C++14 (4.5/5), C89 (4/5), Python 3.5 (4/5)</li><li>• <b>Tools:</b> Matlab, Octave, L<sup>A</sup>T<sub>E</sub>X, Git</li><li>• <b>Data Science:</b> Python Libraries: scikit-learn, NumPy, SciPy</li><li>• <b>Platforms:</b> Windows, Linux (Debian)</li></ul>		
SCHOLASTIC ACHIEVEMENTS	<ul style="list-style-type: none"><li>• Scored 10 GPA in 1st semester at IIT(ISM) Dhanbad amongst 900+ batchmates.</li><li>• Ranked amongst top 0.5% students who cleared JEE (Advanced) 2016 to qualify for seat in prestigious IIT's, achieved rank 4127 in first attempt from general category.</li><li>• Cleared JEE(Main) amongst 1.5 million students who appeared in 2016.</li></ul>		
EXTRA CURRICULAR ACTIVITIES	<ul style="list-style-type: none"><li>• <b>Competitive Programming</b> : Actively participating in contests hosted by international programming communities from August 2017, I have achieved ratings:- <u>CodeChef</u> - 4 ★ (max. rating 1809, div1 participant), <u>Codeforces</u> (max. rating 1486) <u>Project Euler</u> (Solved 50+ problems)</li></ul>		
RELEVANT COURSES	<b>A*</b> Discrete mathematics <b>A*</b> Object oriented prog. <b>A</b> Data Structures <b>O</b> CS229: Machine learning (Stanford University) ( <b>A*</b> :exceptional performance, <b>O</b> : Online Course)		
REFERENCES	<b>Dr. Sushanta Mukhopadhyay</b> (Associate Professor, Dept of CSE at IIT(ISM) Dhanbad) +91 326-2235422      msushanta2001@yahoo.com		