

# Skand Vishwanath Peri

📧 pvskand ✉ pvskand@gmail.com • pvskand.github.io • Indian Institute of Technology, Ropar, India

EDUCATION	<b>B.Tech in Computer Science and Engineering,</b> Indian Institute of Technology, Ropar, India	2014 - 2018 Expected
PROJECTS	<b>Detecting Distracted Vehicle Drivers</b> <i>Mentored by Dr C.K.Narayanan, Dept. of Computer Science, IIT Ropar</i> This project aims to detect if the driver is distracted, with the help of Computer Vision and Convolutional Neural Networks. The training images of this project have been taken from <a href="#">State Farm Insurance Company</a> .	Present
	<b>E-Learning with Fuzzy Concepts</b> <i>Mentored by Dr Puneet Goyal, Dept. of Computer Science, IIT Ropar</i> This project aims to explore and compare MOOCs platforms, Coursera and edX using Fuzzy Analytic Hierarchy Process (AHP) and provide a criteria to judge between the two platforms.	Present
	<b>Mathematical Visual Simulators,</b> <i>Mentored by Dr C.K.Narayanan, Dept. of CS, IIT Ropar</i> Developed a GUI version of <a href="#">Singular Value Decomposition</a> , <a href="#">Gradient Descent</a> and <a href="#">Lagrange Multipliers</a> depicting their geometrical interpretation. Chart.js, Plotly.js, Numeric.js and Algebra.js libraries were used to develop the tool.	May, 2016 - July, 2016
	<b>Android Application for RNA Logistics,</b> Noida, India Built an android application for real time tracking of trucks. Developed the driver end application and used Google Maps API for navigation and worked with JSON to receive requests from server end.	June, 2016 - July, 2016
	<b>Database Storage of data received from Sensors</b> <i>Mentored by Dr C.K.Narayanan, Dept. of CS, IIT Ropar</i> This project aims to receive Data from sensors via Socket Programming and store it in MySQL Database which is further used as a training dataset for machine learning algorithm. This was implemented with the help of Queue data structure and Java Database Connectivity (JDBC) and no loss in data was ensured.	Dec, 2015
TECHNICAL SKILLS	<b>Research Interests</b> - Machine Learning, Artificial Intelligence, Neural Networks. <b>Languages</b> - C, Python, Java, C++, PHP, Perl. <b>Tools/Frameworks</b> - MySQL, SQLite, OpenGL, OpenCV, Android.	
OTHER PROJECTS	1. <b>Finding Quality of Life Index</b> Used Fuzzy Relation Database in order to find the Quality of life index of a city. Various factors that would affect the life index were found and an algorithm in order to consider the fuzziness involved in the factors and compute the index was developed. 2. <b>Domain Specific Language</b> Developed a DSL for Music Domain that simplifies cueing, equalization and audio-mixing, beat-matching, scratching and beat juggling. Developed syntax and grammar for the language and also included few libraries. 3. <b>Text Compression</b> : Used Huffman encoding and decoding in order to compress and decompress text files. Heap based priority queue and hash tables were used and implemented with a compression ratio of about 0.76.	Feb, 2016 Mar, 2016
SCORES, ACHIEVEMENTS, SCHOLARSHIPS	1. Current Head of Coding Club, IIT Ropar. 2. CGPA of <b>7.78</b> /10 (Jul 2016) 3. City Head of <a href="#">BloodConnect</a> (NGO) from 2015 to 2016 January. 4. Member of Team <a href="#">Kshitij</a> (Annual Magazine of IIT Ropar) from 2014 to 2015 June. 5. Secured AIR 2084 in IIT JEE 2014 (among the top 0.5% students). 6. Selected for prestigious <a href="#">Kishore Vaigyanik Protsahan Yojana</a> Fellowship (among top 2% of the students). 7. Intermediate/+2 (Board of Intermediate Education, Andhra Pradesh): 96.7 percent. 8. Matriculation (All India Secondary School Examination): CGPA 10/10.	