

Yashasvi Baweja

CONTACT INFORMATION	C - 283, Sarita Vihar New Delhi 110076, India	yashasvi15116@iiitd.ac.in yashasvi97.github.io
RESEARCH INTERESTS	Pattern recognition, Periocular recognition, Biometrics, Deep Learning, Machine Learning, Data Mining, Image Processing, Internet of Things	
EDUCATION	Indraprastha Institute of Information Technology, Delhi Bachelor of Technology, Computer Science, 2015 - 2019 (<i>Expected</i>) 8.19/10.0 Thesis Topic: <i>Cross Spectral and Cross Resolution Periocular Recognition using deep Convolutional Neural Networks</i> (Ongoing) Advisors: Dr. Richa Singh and Dr. Mayank Vatsa Gyan Bharati School, New Delhi Senior School, 2013 - 2015 95% <i>Got recognition letter from MHRD for scoring 95% in all subjects</i>	
WORK EXPERIENCE	Image Analysis and Biometrics Lab, IIIT-Delhi Undergraduate researcher, May'17 - Present Working on multi-domain learning using CNNs with an application in periocular recognition. Using tools like OpenCV and Tensorflow to develop a CNN which identifies subjects from periocular images in different spectrum (VIS and NIR) and resolution. ACS Lab, IIT Mandi Summer Research Intern, May'17 - July'17 Made landslide prediction models using last 10 years site(Mandi-Manali route) data by applying machine learning methods. Used various data pre-processing techniques like neighbourhood cleaning, SMOTE, SPIDER to reduce the problem of class imbalance. Developed an Arduino based real time landslide monitoring weather station.	
PUBLICATION	<i>A Comparison of Class Imbalance Techniques for Real-World Landslide Predictions</i> Kapil Agrawal, Yashasvi Baweja , Deepti Dwivedi, Ritwik Saha, Prabhakar Prasad, Shubham Agrawal, Sunil Kapoor, Pratik Chaturvedi, Naresh Mali, Venkata Uday Kala and Varun Dutt <i>Submitted to ICMLDS - 2017</i>	
AWARDS	Third Prize - Byld Hackathon Bronze Medal - Manav Sthali Maths Olympiad NSEC 2nd round - Got selected from Delhi for Chemistry Olympiad Sincere Student of the Year (2014-2015) - Gyan Bharati School	
PROJECTS	Smart Glasses : A reading tool for the visually impaired. Got selected as one of the top course projects. Also got featured in Delhi-Mini Maker Faire(MMF)	
LANGUAGES	English (fluent), Hindi (fluent)	
SOFTWARE PROGRAMMING	MATLAB, OpenCV, TensorFlow, Scikit-learn, Arduino, \LaTeX , Git, Linux Python, C, C++, Java, R(Basics)	