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 (*Expected*)   8.19/10.0
Thesis Topic: *Cross Spectral and Cross Resolution Periocular Recognition using deep Convolutional Neural Networks*(Ongoing)
Advisors: Dr. Richa Singh and Dr. Mayank Vatsa

Gyan Bharati School, New Delhi
Senior School, 2013 - 2015   95%
Got recognition letter from MHRD for scoring 95% in all subjects

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.

VlinkInfo Pvt. Ltd., Gurugram
Summer Intern, June'16 - July'16
Worked on revamping the portal EHRM, an online Human Resource Management platform using tools like PHP, Codeigniter and MySQL.

PUBLICATION
A Comparison of Class Imbalance Techniques for Real-World Landslide Predictions
Kapil Agrawal, **Yashasvi Baweja**, Deepti Dwivedi, Ritwik Saha, Prabhakar Prasad, Shubham Agrawal, Sunil Kapoor, Pratik Chaturvedi, Naresh Mali, Venkata -Uday Kala and Varun Dutt
Submitted to ICMLDS - 2017

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)
DBLP query engine - The course project uses Java to extract information from the offline dataset in XML format.
Lsyncd-service utility - The project offers a command line tool for file syncing and sharing with a remote server. It uses SSH for logging and Lua script in background

SOFTWARE &   MATLAB, OpenCV, TensorFlow, Scikit-learn, Arduino, LaTeX, Git, Linux
PROGRAMMING   Python, C, C++, Java, R(Basics)

CO-
CURRICULAR   Tennis Coordinator, part of the Sports Council(2017-2018)
PR and Infra Head, Building better villages, techfest Esya'16
Tennis Coordinator, sports fest Triquetra'17
Class Representative for Btech'15, part of the Student Senate (2015-2016)
Infra Organizing Team, cultural fest Odyssey'17