Yashasvi Baweja

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RESEARCH INTERESTS	Image Processing, Pattern recognition, Biometrics, Deep Learning, Machine Learning, Internet of Things, Data Mining

EDUCATION

Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi)
Bachelors of Technology, Computer Science (2015 - 2019) CGPA: 8.27/10.0

Gyan Bharati School, New Delhi
Senior School (2013 - 2015) Score: 95%

WORK EXPERIENCE

IIIT-Delhi *Undergraduate researcher*, IAB Lab, May'17 - Present
Advisers: Dr. Richa Singh and Dr. Mayank Vatsa
Working on multi-domain learning using Convolutional Neural Networks. Aim is to develop a model which identifies subjects from facial images in different modalities. Currently working with images from Visible (VIS) and Near Infrared (NIR) spectrum.

Indian Institute of Technology, Mandi *Summer Research Intern*, ACS Lab, May'17 - July'17
Adviser: Dr. Varun Dutt
Made landslide prediction models using last 10 years site(Mandi-Manali route) data by applying machine learning algorithms. Used various data pre-processing techniques like neighbourhood cleaning and SMOTE to reduce the problem of class imbalance. Developed an Arduino based real time landslide monitoring weather station which is currently deployed at the institute grounds.

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 Agarwal, Sunil Kapoor, Pratik Chaturvedi, Naresh Mali, Venkata Uday Kala and Varun Dutt. *Presented the work at International Conference on Machine Learning and Data Science - December 2017*

AWARDS & RECOGNITION

Got recognition letter from MHRD for scoring 95% in all subjects in class XII examinations
Byld Hackathon - Third Prize
Manav Sthali Maths Olympiad - Bronze Medal
NSEC 2nd round - Got selected from Delhi for Chemistry Olympiad

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)
· *Multi-Heuristic A* (MHA*)* - A comparison of the performances of search algorithms - MHA* and A*; on various use cases. Code at Github
· *Trust based recommender systems* - Modelled trust values between users in a recommender system. Code avalaible at Github
· *Lsyncd-service utility* - A DropBox like utility on command line for file syncing and sharing with a remote server using Lua script in background.

SOFTWARE & PROGRAMMING

TensorFlow, PyTorch, OpenCV, MATLAB, scikit-learn, Arduino, LaTeX, Git, Linux
Python, C, C++, Java, R(Basics)

CO-CURRICULAR

Tennis Coordinator, part of the Sports Council(2017-2018); *OC(Tennis)*, sports fest Triquetra'17
Infra OT, cultural fest Odyssey'17; *PR & Infra Head*, Building Better Villages, techfest Esya'16
Class Representative for Btech'15, part of the Student Senate (2015-2016)