Surabhi Bhargava

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EDUCATION

Indian Institute of Technology, Guwahati B.Tech, Electronics and Electrical Engineering | 8.43/10

M.G.D. Girls School, Jaipur Graduated in 2012 | 92.6%

SKILLS

ProgrammingC, C++, Python, Matlab, PerlOperating SystemsLinux, Windows

COURSEWORK

Data structures and Algorithms Computer Vision Digital Image Processing Pattern Recognition and Machine Learning Parallel Processing Speech Technology Bio-medical Signal Processing Game Theory

WORK EXPERIENCE

Flipkart, India | Graduate Trainee Intern Ravi Iyer | May 2015 - July 2015

- Worked on analyses of customer payment behaviour with the Payment Gateways team at Flipkart.
- Analyses were based on geographic and demographic variables.
- Developed a tool which predicted the feasibility of a certain percentage of discount at category and vertical level.

IIT Roorkee | Research Intern

Prof. Anand Bulusu | May 2014-July 2014

- Derived a delay model for CMOS two stage inverter buffer.
- Developed a tool (Perl and HSPICE) to generate Look up tables for calculation of delay for a single stage inverter, two stage inverter buffer and static D latch.

PROJECTS

Detection of nuclei in H&E stained images using Convolutional Neural Networks Prof. Amit Sethi | Ongoing

• Trained a CNN for a three class classification problem - Nucleus, Non-Nucleus and Boundary.

• Aim to reconstruct the original shape of the nucleus using the boundary and nucleus classes and various image processing techniques.

Machine Learning mini-projects

Prof. Suresh Sundaram | Jan 2015 - April 2015

- Created a character recognition system for a few alphabets and numbers using Bayesian classifier.
- Image Segmentation using K means clustering and Gaussian mixture models.
- Face recognition using Principal component analysis and Fischer discriminant.

Wall Climbing Robot

Prof. Prithwijit Guha | Jan 2015 - April 2015

• Built a wall climbing robot which could travel on flat as well as slightly uneven surfaces.

PUBLICATIONS

Chaurasiya, Y., Bhargava, S., Sharma, A., Kaur, B., & Anand, B. (2015, June). Timing model for two stage buffer and its application in ECSM characterization. In VLSI Design and Test (VDAT), 2015 19th International Symposium on(pp. 1-6). IEEE.

ACHIEVEMENTS

- KVPY fellow
- Khemka Fellow Recipient of scholarship from The Global Education and Leadership Foundation.
- National level swimmer, Bagged a total of 9 medals (8 silver and one bronze) at the Inter IIT Aquatics meet 2012, 2013 and 2014.