Ishani Janveja

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INTERESTS

Deep Learning, Computer Vision, Artificial Intelligence, Image/Video Processing, Product Designing

EDUCATION

Bharati Vidyapeeth's College of Engineering 2015-2019(anticipated)
Bachelor of Technology in Electronics and Communication
Current CGPA Score - 8.9/10.0

Venkateshwar International School, Delhi 2013-2015
Higher Secondary Education
91.8% in AISSCE 2015

Kalpa Co-Educational School, Hyderabad
High School(Class 10)
School Topper with 94.5% in ICSE Board Examination 2013

TRAINING & INTERNSHIPS

Trainee at IIT Delhi Jan. 2018
Winter course on Deep Learning

Intern at IIT Delhi for Celestini Project India Jun. 2017-Jul. 2017
Led by : Dr. Aakanksha Chowdhery(Princeton University) and Dr. Brejesh Lall(IIT Delhi). Sponsored by Marconi Society, Google and IIT Delhi.

Trainee at Cyborg Labs, Delhi Jul. 2016-Jun. 2016
Comprehensive course on Embedded Systems

TECHNICAL SKILLS

Programming Languages: Python, C, Embedded C, MATLAB, LaTex.
Hardware Descriptive Language: VHDL.
Embedded Platforms: Raspberry Pi, Arduino, Firebird V, TI MSP 430.
Softwares and Libraries: OpenCV, TensorFlow, Blender (GUI and Scripting), Mentor Graphics QuestaSim, OrCAD Capture/PSpice.

AWARDS & HONORS

Paul Baran Young Scholars **Celestini Prize India** Nov. 2017
Awarded to honor the demonstration of innovation and blue-sky thinking in developing a telecom-based solution to a socioeconomic challenge.

Certificate of Merit *at* **e-Yantra Robotics Competition (eYRC)** Mar. 2017
For standing **4th out of 160 national teams** in theme Bothoven.

Scholar's prize *for standing* **1st at school level** *in ICSE Board Examination 2013*

PUBLICATIONS

[1] A. Arora, **I. Janveja** and Brejesh Lall. "labelVDOS: label Very Dense Object Sequences." *submitted to Computer Vision and Pattern Recognition Workshops (CVPRW) 2018.*

[2] N. Garg, **I. Janveja**, D. Malhotra, C. Chawla, P. Gupta, H. Bansal, A. Chowdhery, P. Mukherjee and Brejesh Lall, "DRIZY- Collaborative Driver Assistance Over Wireless Networks," *submitted to ACM/IEEE International Conference on Internet-of-Things Design and Implementation 2018.*

[3] **I. Janveja**, N. Garg, C. Chawla and J. Parikh. "AQUACOM : Underwater Visible Light Communication". *Computing for Nation Development (INDIACom 2018), India.*

[4] N. Garg, **I. Janveja**, D. Malhotra, C. Chawla, P. Gupta, H. Bansal, A. Chowdhery, P. Mukherjee, and Brejesh Lall. "Poster: DRIZY: Collaborative Driver Assistance Over Wireless Networks." *Proceedings of the 23rd Annual International Conference on Mobile Computing and Networking. ACM, 2017.*

PROJECTS

- **IITD Winter Project 2017 - Depth Mapping of 2D Images using CNNs**
Transfer learning by using a VGG16 model pretrained on ImageNet dataset to generate depth map from a single monocular image. Prototyped using Keras.

- **Model a Terrain (eYRC 2016) : Planet Terrain Analysing and Modelling**
Generation of a map of the arena traversed by an Explorer Bot on a remote system. Prototyped on Firebird V

- **Bothoven (eYRC 2016) : Inter-Robot Communication for Cooperative Task Management**
Wireless communication using ZigBee technology to establish the collaborative task of striking a sequence of notes placed on an arena.

- **Visible Light Communication**
Transfer textual data to a remote receiver using a laser diode transmitter. Prototyped using Arduino Mega 2560.

LEADERSHIP EXPERIENCE

Vice Chairperson Aug. 2017-present
Robotics and Automation Society, BVP-IEEE Student Branch, Delhi.

Student Representative Aug. 2016-2017
BVP-IEEE Student Branch, Delhi.

School Prefect 2014-2015
Venkateshwar International School, Delhi.

Head Girl 2012-2013
Kalpa Co-Educational School, Hyderabad.

HOBBIES

I seek pleasure in creating (just about anything). The idea of sharing stories through just pictures amuses me, hence my love for photography. I relish solitude as much as I like talking to people and most of my conversations generally begin with or include music apart from talks about science, upcoming trends in technology or interesting things that I come across on the Internet. I enjoy swimming as a sport and sharing my philosophies with the few like-minded people that I have around me.