CHETAN CHAWLA

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CURRENT POSITION

ZS Associates, New Delhi, India
Business Technology Analyst, Jun'19 – present

- Development of end-to-end systems for alignment of sales to medical representatives using heterogeneous data sources
- Enhancements and automation of monthly incentive compensation systems using SQL and Unix scripting

PAST POSITIONS

Indian Insitute of Technology, EE Department (IIT Delhi), Delhi, India
Research Intern, Jun'18 – Aug'18

- Research and development of pedestrian trajectory prediction methodologies and optimization of multi-object tracking algorithms for dynamic vehicle-dashboard cameras, under the guidance of Dr.Brejesh Lall (Head, EE Dept, IIT-D)
- Creating and benchmarking an Indian road detection and tracking dataset (over 50,000 annotated frames containing 7 classes and occlusion information)

Celestini Project India, Marconi Society & IIT Delhi, India
Project Intern, Jun'17 – Jul'17

- Prototyping and creating test-bed for a low latency collaborative driver assistance system to prevent on-road collisions using real-time networking of sensory data from vehicles
- Guided by: Dr.Aakanksha Chowdhery (Google Brain, Tensorflow)

EDUCATION

Bachelors of Technology, Electronics and Communication Engineering   Aug'15 – Jul'19
Bharati Vidyapeeth's College Of Engineering
Guru Gobind Singh Indraprastha University (GGSIPU), New Delhi, India
CGPA: 8.94 out of 10   Advisor: Asst. Prof. Abhishek Gagneja

AISSCE, CBSE Board (XII)   Apr'14 – May'15
Kendriya Vidyalaya Tagore Garden, New Delhi, India
Percentage: 95% (Positioned in top 1.5%, KVS India)

SELECTED HONORS AND AWARDS

- Project Champions Award, ZS Associates, New Delhi, India   2019
- Best Student of the Year Award, Electronics and Communication dept., Bharati Vidyapeeth's College Of Engineering   2019

- JK Pal Memorial- Best Student Volunteer Award, IEEE Delhi Section (R10)   2019
- Paul Baran Young Scholar Celestini Prize India 2017, felicitated by Dr.Robert Tkach (Vice- chairman, Marconi Society)   2017
- Runner Ups: E-yantra Robotics Competition, CSE Department, IIT Bombay   2016

PUBLICATIONS

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

Conference Paper
"Aquacom: Underwater Visible Light Communication"
I. Janveja, N.Garg, **C. Chawla**, J. Parikh
Proceedings of the 12th INDIACom 2018, BVICAM, New Delhi, India

PROJECTS

- Autonomous drone traversal and waypoint navigation in constrained paths   Apr'19
- Meishu: Real-time networking based rescue system   Mar'19
- FOS: Fire SOS and evacuation assistance system   Sep'18
- Music Generation Using Deep Learning   Jan'18
- Swarming UGVs and path planning for coordinated task execution in space   Mar'17
- Real-time Planet terrain analyzing & modelling simulations   Feb'17

LEADERSHIP EXPERIENCE

- Co-organizer, PyData Delhi and marketing India head, PyData Global Conf   2020
- Vice Chairperson, IEEE Student Branch of BVCOE   2018-19
- Conference Chair, Innovicon   2019
- Chairperson, Robotics and Automation Society, IEEE BVCOE   2017-18

TECHNICAL SKILLS

Proficient: Python, SQL, C, Embedded C/Arduino C, Unix shell scripting, ROS, and LaTeX

Working knowledge: HTML5, MATLAB, Lua, Tableau and VHDL

Libraries: Tensorflow, Keras, OpenCV, Matplotlib, Pandas, Numpy, Radvel, LightKurve, blimpy, turboSETI, pyMC, beautifulsoup

Key Technologies: • Astrophysics • Deep Learning • Robotics & Networking • Computer Vision • UAV & UGV path planning • Data ETL • RPA • Signal Processing • 3D Modelling & Simulation