CHETAN CHAWLA

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POSITIONS

ZS Associates, New Delhi, India
Business Technology Analyst, Jun'19 – Jan'21

- Development, Testing & Deployment of 1-click end-to-end systems for sales alignment of US-based medical representatives using SQL & Unix scripting, and analysis using Tableau
- Automated several high-impact reporting modules like Textual insights generation, Data Pull & Business Rule Implementations, and Backup-Deletion systems

Indian Insitute of Technology, Delhi, India - Electrical & Electronics Dept
Research Intern, Jun'18 – Aug'18 Mentor: Dr.Brejesh Lall (Head, EE Dept, IIT-D)

- Research and development of pedestrian trajectory prediction methodologies and optimization of multi-object tracking algorithms for dynamic vehicle-dashboard cameras
- Creating and benchmarking an Indian road detection and tracking dataset (over 50,000 annotated frames containing 7 classes and occlusion information). Report Link

Celestini Project India, Marconi Society & IIT Delhi, India
Project Intern, Jun'17 – Jul'17 Mentor: Dr.A Chowdhery (Google Brain, Tensorflow)

- 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. Link (Pg4)

EDUCATION

Bachelor of Technology, Electronics and Communication Engineering Aug'15 – Jul'19
Guru Gobind Singh Indraprastha University, Bharati Vidyapeeth's College Of Engg., New Delhi
Notable Coursework: Applied Physics (I & II), Applied Mathematics (I, II, III, & IV), Electromagnetic Field Theory, Signals and Systems, Digital Signal Processing, Optoelectronics and Optical Communication, Antenna and Wave Propagation, Microwave Engineering, Satellite Communication
CGPA: 8.94 out of 10 (Silver Medalist) Advisor: Asst. Prof. Abhishek Gagneja

AISSCE, CBSE Board (XII grade - Science Stream) Apr'14 – May'15
Kendriya Vidyalaya Tagore Garden, New Delhi, India
Subjects: Physics, Maths, Chemistry, Biology, English
Percentage: 95% (Gold Medalist, Positioned in top 1.5%, KVS India)

SELECTED HONORS AND AWARDS

- Project Champions Award, ZS Associates, New Delhi, India 2019, 2020
- 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

RESEARCH

Research Proposal

Exoplanet Transit Classification using Recurrent Neural Networks

The project proposal was submitted as the final project to Intro to Astrophysics Research 2020 course by Howard Isaacson, Research Scientist, University of California, Berkeley

Publication - 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

Publication - Conference Paper (2738)

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
- Multispectral Crop Analysis Mar'19
- Wildfire SOS and evacuation assistance system Mar'19
- Video advertisements effectiveness : Audio module Apr'18
- Music Generation Using Deep Learning Jan'18
- Synchronous path planning and coordinated task execution for Mars rovers Mar'17
- Real-time Planet terrain analyzing & modelling simulations Feb'17

LEADERSHIP & VOLUNTEER EXPERIENCE

- Co-organizer, PyData Delhi and marketing India head, PyData Global Conference 2020
- Vice Chairperson, IEEE Student Branch of BVCOE 2018-19
- Instructor & Organizer, Deep Learning workshop series, BVCOE 2018-19
- Conference Chair, AI and Data Sceince session based conference - 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: HTML, MATLAB, Lua, Tableau, C++, Android, Java

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