Chetan Chawla

New Delhi, India | Ph: +91-9013307073 | chetanchawlacc4@gmail.com ↗

EDUCATION

Bharati Vidyapeeth's College Of Engineering, New Delhi
Undergraduate, Electronics & Communication Engineering • 89.4%
• 2015-2019 • Best Student Award

Kendriya Vidyalaya Tagore Garden, New Delhi
AISSCE, CBSE Board (XII) • 95%
• Positioned in top 1.5% KVS India

WEBSITE
sites.google.com/view/chetanchawla ↗

COURSEWORK
• **External:** Code/Astro'21 ↗ Intro-to-Astro 2020 ↗, Deep Learning (IIT Delhi), Robotics (Cyborg Labs)
• **Undergrad:** Applied Physics I-II, Applied Mathematics I-IV, Electromagnetic Field Theory, Signals & Systems, Digital Signal Processing, Optical Comm, Antenna & Wave Propagation, Satellite Comm

LEADERSHIP/VOLUNTEERING
- Mentor Intro to Astro 2021 ↗
- Marketing Head, PyData Global'20 ↗
- Co-organizer at PyData Delhi ↗
- Vice-Chairperson, IEEE (BVP) ↗
- Conference Chair, InnoviCon 2019 ↗
- Organizer, WIEHack 2018 ↗
- Head-Aagaaz BVCOE Music Soc. ↗

AWARDS
• Project Champions 2019, 2020-ZS
• JK Pal Memorial- Best Student Award, IEEE Delhi Section (R10)
• Celestini Prize India 2017, Marconi ↗
• Runner Ups: eYantra Robotics Competition 2016(CSE, IIT Bombay) ↗
• 1st position- Wheelectrifying (Cognizance 2019, IIT Roorkee) ↗

PROGRAMMING
Proficient
• Python • SQL/ADQL • Unix Shell • C • Arduino • Android • ROS • Tableau
Mediocre
• HTML • Assembly • Lua
Familiar
• C++ • Java • MATLAB • VHDL • TCL

EXPERIENCE

ASIAA, TAIWAN | Summer Research Intern ↗
07/21-Present | Remote
- Detection of Temperate Exoplanet Candidates using Transiting Exoplanet Survey Satellite (TESS) Continuous Viewing Zones

ZS ASSOCIATES ↗ | Business Technology (Data) Analyst
06/19-01/21 | New Delhi
- Development, Testing and Deployment of 1-click end-to-end systems for pharmaceutical sales alignment using SQL, Unix & Tableau
- Automated systems like Textual insights generation, Data migration & Business Rule Implementations, and reduction, backup & deletion

IIT DELHI | Summer Research Intern
06/18 – 08/18 | New Delhi
- Pedestrian trajectory prediction and optimising multi-object tracking algorithms for dynamic vehicle-dashboard cameras, with Dr.Brejesh Lall (Head, EE Dept, IIT-D) - Report Link ↗

MARCONI SOCIETY - CELESTINI ↗ | Summer Research Intern
06/17 - 07/17 | IIT Delhi
- Collaborative driver assistance system with real-time networking of sensory data from vehicles. Awarded Paul Baran Young Scholar Celestini Prize India. Mentor: Dr.Aakanksha Chowdhery (Google Brain, Tensorflow) - Link (Pg4) ↗

RESEARCH

RESEARCH PROPOSAL: EXOPLANET TRANSIT CLASSIFICATION USING RECURRENT NEURAL NETWORKS Duration: 10/2020
Survey of existing transit vetting techniques and proposing a RNN based approach for using temporal features ↗

ADVANCE DRIVER ASSISTANCE SYSTEMS FOR INDIAN ROAD SCENARIOS Duration: 04/2017-10/2018
Poster in 23rd Conference ACM MobiCom (2017) ↗ and creating and benchmarking an Indian road detection and tracking dataset (50,000 annotated frames, 7 classes, occlusion information)

AQUACOM: UNDERWATER VISIBLE LIGHT COMMUNICATION (2738 PUBLISHING NUMBER)
I. Janveja, N. Garg, C. Chawla, J. Parikh
Designing and testing a low-cost portable transceiver for underwater communication using VLC. The paper was accepted in Indiacom 2018 ↗

PROJECTS
- (06/21) | Gaia Light Curves fetching open-source package ↗
- (04/19) | Drone path planning ↗ & Multispectral Crop Analysis ↗
- (09/18) | Wildfire SOS ↗ and evacuation assistance system ↗
- (04/18) | Video advertisement effectiveness ↗: audio module ↗
- (01/18) | Music Generation Using Deep Learning ↗
- (03/17) | Synchronous path planning for Mars rovers ↗

TECHNOLOGIES
• Deep Learning • Astrophysics - Exoplanet detection • Comp. Vision
• Robotics & Networking • UAV & UGV path planning • Data ETL
• RPA ↗ • Android Development • 3D Modelling & Simulation