

Chetan Chawla

New Delhi, India | Web: sites.google.com/view/chetanchawla | chetanchawlacc4@gmail.com

EDUCATION

Bharati Vidyapeeth's College Of Engineering, New Delhi

Undergrad, 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

COURSEWORK

• **External:** Code/Astro'21 ☞
Intro-to-Astro 2020 ☞, Astronomy:
Exploring Time and Space ☞,
Data-Driven Astronomy ☞,
Astrosprint'21 ☞
• **Undergrad:** Applied Physics I-II,
Applied Mathematics I-IV,
Electromagnetic Field Theory, Signals
and Systems, Digital Signal Processing,
Optical Comm., Antenna & Wave
Propagation, Satellite Comm.

VOLUNTEERING & OUTREACH

• Mentor: Intro to Astro 2021 ☞
• Mentor: Astrosprint 2021 ☞
• PyData Global'20, 21 ☞
• Co-organizer at PyData Delhi ☞
• Vice-Chairperson, IEEE (BVP) ☞
• Conference Chair, InnoviCon 2019 ☞
• Organizer, WIEHack 2018 ☞

AWARDS

• Project Champions 2019, 2020-ZS
• J.K. Pal Memorial- Best Student
Award, IEEE Delhi Section (R10)
• Celestini Prize India 2017, Marconi ☞

TECHNICAL SKILLS

Proficient

• Python • SQL/ADQL • Unix Shell
• C • \LaTeX • Git • Topcat

Familiar

• C++ • HTML • Lua • Android (XML
and Java) • MATLAB

Python Libraries

• MoonPy • astropy • wotan • pandas
• radvel • lightkurve • matplotlib
• pyMC • tensorflow • keras

EXPERIENCE

ACADEMIA SINICA IAA, TAIWAN ☞ | Research Intern

07/21-Present | Remote

Supervisor: Dr. Alex Teachey ☞

- Identifying planet candidates in Transiting Exoplanet Survey Satellite's (TESS) Continuous Viewing Zone. Achieved ~ 93% accuracy on the test-set with the developed pipeline. [Talk] ☞

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 orchestration & processing, and automatic backup-deletion.

IIT DELHI | Summer Research Intern

06/18 – 08/18 | New Delhi

Mentor: Prof. Brejesh Lall ☞ (E.E. Dept)

- Implementing neural network based pedestrian trajectory prediction and optimising multi-object tracking algorithms for vehicle dashboard cameras on self-developed Indian road dataset. [Report] ☞

MARCONI SOCIETY - CELESTINI ☞ | Summer Research Intern

06/17 - 07/17 | IIT Delhi

Mentor: Dr. A. Chowdhery ☞ (Google Brain)

- Prototyped and tested collaborative driver assistance system with real-time networking of sensory data from vehicles. [Video] ☞

PUBLICATIONS

IDENTIFICATION OF PLANET CANDIDATES IN FULL-FRAME IMAGES FROM THE TESS CONTINUOUS VIEWING ZONE

Journal Paper: In Preparation

Authors: [C. Chawla](#) and A. Teachey

Paper to be submitted to Monthly Notices of Royal Astronomical Society

POSTER: DRIZY: COLLABORATIVE DRIVER ASSISTANCE OVER WIRELESS NETWORKS ☞

Conference Poster: 2017

Authors: N. Garg, I. Janveja, D. Malhotra, [C. Chawla](#), P. Gupta, H. Bansal, A. Chowdhery, P. Mukherjee, B. Lall [pdf] ☞ [poster] ☞

Proceedings of 23rd Annual International Conference on Mobile Computing and Networking, MobiCom'17, ACM, NY, USA, 546–548.

AQUACOM: UNDERWATER VISIBLE LIGHT COMMUNICATION

Conference Paper (Paper ID: 2738) ☞

Authors: I. Janveja, N. Garg, [C. Chawla](#), J. Parikh

[pdf] ☞

In Proceedings of the 12th INDIACom; INDIACom-2018; IEEE

Conference ID: 42835

PROJECTS

- In Prog | Identifying stellar cluster memberships with Gaia
- (06/21) | Gaia Lightcurves fetching open-source package ☞
- (08/20) | Proposal: Exoplanet Transit Vetting using RNN ☞
- (04/19) | Drone navigation ☞ & Multispectral Crop Analysis ☞
- (09/18) | Wildfire SOS ☞ and evacuation assistance system ☞
- (01/18) | Music Generation Using Deep Learning ☞
- (03/17) | Synchronous path planning for Mars rovers ☞