# Somin Wadhwa

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**EDUCATION**

**Bachelor of Technology in Computer Science & Engineering**      2014 – 2018
Maharaja Agrasen Institute of Technology      CPI: **79.2%**
Guru Gobind Singh Indraprastha University, Delhi, India

**RECENT EXPERIENCE**

- **Indraprastha Institute of Information Technology, Delhi (IIIT-D)**
  *Research Intern*      July, 2018 - Present
  Complex Systems Lab, Center for Computational Biology      June 2017 - March 2018
  **Advisor**: Dr. Ganesh Bagler

  – **Current Work:** My current work focuses on creation of *"BitterSweet: A resource to explore and predict taste information in small molecules"*. (http://cosylab.iiitd.edu.in/bittersweet)

  – **Previous Work:** During my undergraduate studies, we worked on devising new methods to predict phenotypic side effects of drugs using existing data (SIDER4). The work was culminated in the form of a research article and the code was documented & open-sourced on Github (link).

- **All India Council for Technical Education (AICTE), Govt. of India**
  *Research & Development Intern*      October 2017 - March 2018
  **Advisor**: Dr. N.H. Siddalingaswamy (Director, AICTE)

  – **Work:** Lead a team of 5 and with a project budget of $4600. We analysed AICTE's employment statistics dataset and developed dynamic analytic dashboards to aid AICTE in granting approvals to higher education institutions.

**PUBLICATIONS**

**Wadhwa S**, Gupta A, Dokania S, Kanji R, Bagler G (2018) A hierarchical anatomical classification schema for prediction of phenotypic side effects. PLOS ONE 13(3): e0193959.
https://doi.org/10.1371/journal.pone.0193959

**SELECTED PROJECTS**

All of my projects (including the following ones) are be available on github.com/sominwadhwa

- **Visual Question Answering through Modal Dialogue:** A two semester long B.Tech project based on the application of *Malinowski et al.* on v2 of the VQA dataset. Documented and made the entire process reproducible in the form of a featured blog post. (code)

- **Kaggle Repository:** An ongoing collection of kernels (in IPython notebooks) designed using datasets obtained from Kaggle for practise as well as competitions. (repository)

- **TheTwitterPolice:** Analysis & visualization of Indian law enforcement activity on Twitter. Collected data for different cities (BeautifulSoup & Selenium), stored them in a database (MongoDB), analysed & displayed the results graphically through a flask web-app.

**OTHER ACTIVITIES**

- Won Smart India Hackathon (April 2017) I was the Team Lead of a six-member team under the mentorship of Dr. Sambuddha Roy over a period of three months to build a decision support system using Machine Learning to improvise AICTE's handbook approval system for technical institutions in India for SIH – 7200+ teams pan India competed in a 36-hour Hackathon organised by Government of India. As a part of the winning team for AICTE, I'm associated with All India Council for Technical Education (Ministry of Human Resources & Development, Government of India) in a fully funded project (**Budget: 2.93L**) for taking our prototype forward over the period of 6-8 months beginning October 2017.
- **Secretary**(2015-2016) 'Association of Computing Machinery (ACM)- Student Chapter' at M.A.I.T
- Presentation Gave an oral talk on, "Study of Random Numbers & their applications in computational physics using Monte-Carlo method" at the 27th IUPAP Conference on Computational Physics, **IIT Guwahati** on 2-5 December, 2015.
- **Interned** at a national NGO 'Umeed - A drop of Hope' (NGO Reg: S/792/DIST.SOUTH/201) and participated in Project- Knowledge for All (KFA).

- **Rotaractor** (2014-2015) Member of 'Rotaract Club of Delhi Akash' where our team jointly organized several large scale events like 'CanSupport's Walk of Life (8th Feb 2015) - Fight against cancer.', 'Patrika - A paper recycling drive.'