

# Somin Wadhwa

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CONTACT INFORMATION	E-mail: <a href="mailto:sominwadhwa@gmail.com">sominwadhwa@gmail.com</a> Homepage: <a href="http://sominwadhwa.github.io">sominwadhwa.github.io</a>	GitHub/Kaggle: <a href="https://github.com/sominwadhwa">/sominwadhwa</a> LinkedIN: <a href="https://in.linkedin.com/in/sominwadhwa">/in/sominwadhwa</a>
EDUCATION	<b>Bachelor of Technology in Computer Science &amp; Engineering</b> Maharaja Agrasen Institute of Technology Guru Gobind Singh Indraprastha University, Delhi, India	2014 – 2018 CPI: <b>79.2%</b>
RECENT EXPERIENCE	<ul style="list-style-type: none"> <li> <b>Indraprastha Institute of Information Technology, Delhi (IIIT-D)</b>  <i>Research Intern</i>            Complex Systems Lab, Center for Computational Biology  <b>Advisor:</b> <a href="#">Dr. Ganesh Bagler</a>            – <b>Current Work:</b> My current work focuses on creation of “<i>BitterSweet: A resource to explore and predict taste information in small molecules</i>”. (<a href="http://cosylab.iiitd.edu.in/bittersweet">http://cosylab.iiitd.edu.in/bittersweet</a>)            – <b>Previous Work:</b> 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 &amp; open-sourced on Github (<a href="#">link</a>).         </li> <li> <b>All India Council for Technical Education (AICTE), Govt. of India</b>  <i>Research &amp; Development Intern</i>  <b>Advisor:</b> Dr. N.H. Siddalingaswamy (Director, AICTE)            – <b>Work:</b> 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.         </li> </ul>	July, 2018 - Present June 2017 - March 2018 October 2017 - March 2018
PUBLICATIONS	<b>Wadhwa S, Gupta A, Dokania S, Kanji R, Bagler G (2018)</b> A hierarchical anatomical classification schema for prediction of phenotypic side effects. PLOS ONE 13(3): e0193959. <a href="https://doi.org/10.1371/journal.pone.0193959">https://doi.org/10.1371/journal.pone.0193959</a>	
SELECTED PROJECTS	All of my projects (including the following ones) are be available on <a href="https://github.com/sominwadhwa">github.com/sominwadhwa</a> <b>VQAMD</b> A semester long project based on the Virginia Tech’s <a href="#">VQA</a> (Version 2). Idea is to design a CNN + LSTM based model whose outputs are passed through a fully connected followed by softmax layer to improvise the overall accuracy on v2 release of VQA. The entire methodology is documented under a blog- <a href="#">Visual Question Answering through Modal Dialogue Kaggle-Repository*</a> A collection of kernels (written in IPython Notebooks & scripts) designed from datasets obtained from Kaggle for practise as well as competitions. These include implementations of typical Machine Learning algorithms on a range of datasets. <b>TheTwitterPolice</b> Analysis of law enforcement activity on Twitter in India. Collected data from five different police social handles (BeautifulSoup & Selenium), stored them in a database (MongoDB), analysed (sentiment-analysis, time-series etc) & displayed the results graphically in the form of a web-app (flask application deployed on heroku).	
OTHER ACTIVITIES	<ul style="list-style-type: none"> <li><b>Won Smart India Hackathon</b> (April 2017) I was the Team Lead of a six-member team under the mentorship of <a href="#">Dr. Sambuddha Roy</a> 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 <b>SIH</b> – 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 &amp; Development, Government of India) in a fully funded project (<b>Budget: 2.93L</b>) for taking our prototype forward over the period of 6-8 months beginning October 2017.</li> <li><b>Secretary</b>(2015-2016) ‘Association of Computing Machinery (ACM)- Student Chapter’ at M.A.I.T</li> </ul>	

- **Presentation** Gave an oral talk on, “Study of Random Numbers & their applications in computational physics using Monte-Carlo method” at the 27<sup>th</sup> 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.’