

# Somin Wadhwa

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CONTACT INFORMATION	E-mail: <a href="mailto:sominwadhwa@gmail.com">sominwadhwa@gmail.com</a> Homepage: <a href="https://sominwadhwa.github.io">sominwadhwa.github.io</a>	GitHub/Kaggle: <a href="https://github.com/sominwadhwa">/sominwadhwa</a> LinkedIN: <a href="https://in/sominwadhwa">/in/sominwadhwa</a>
EDUCATION	<b>Bachelor of Technology in Computer Science &amp; Engineering</b> Maharaja Agrasen Institute of Technology, G.G.S.I.P Univ., Delhi, India	2014 – 2018 <b>CPI: 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="#">code</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. (<a href="#">code</a>)         </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 available on <a href="https://github.com/sominwadhwa">github.com/sominwadhwa</a> <ul style="list-style-type: none"> <li> <b>Visual Question Answering through Modal Dialogue:</b> A semester long B.Tech project based on the application of <i>Malinowski et al.</i> (Ask Your Neurons) on v2 of the <a href="#">VQA</a> dataset. Documented and made the entire process reproducible in the form of a <a href="#">featured blog post</a>. (<a href="#">code</a>)         </li> <li> <b>Kaggle Repository:</b> An ongoing (2+ yrs) collection of kernels (in IPython notebooks) designed using datasets obtained from Kaggle for practise &amp; competitions. (<a href="#">github-repo</a>, <a href="#">kaggle profile</a>)         </li> <li> <b>TheTwitterPolice:</b> Basic analysis &amp; visualization of Indian law enforcement activity on Twitter. Collected data for different cities (BeautifulSoup &amp; Selenium), stored them in a database (MongoDB), analysed (sentiment analysis, basic statistics etc) &amp; displayed the results graphically through a flask web-app. (<a href="#">code</a>)         </li> </ul>	
SKILLS	<ul style="list-style-type: none"> <li> <b>Languages &amp; Frameworks:</b> Python, Java, Bash Scripting, SQL, <math>\text{\LaTeX}</math>. Tensorflow, Keras, Scikit-Learn, Spacy, NLTK, Matplotlib, Plotly, MongoDB, Flask         </li> <li> <b>Relevant Classes Taken:</b> Algorithm Design &amp; Analysis, Machine Learning, Advanced DBMS, Data Structures, Probability &amp; Curve Fitting (Applied Mathematics-IV)         </li> </ul>	
ACHIEVEMENTS & OTHER ACTIVITIES	<ul style="list-style-type: none"> <li> <b>Smart India Hackathon 2017, MHRD, Govt. of India:</b> Led a team of 6-members advised by Dr. Sambuddha Roy (Principal Data Scientist at Microsoft, Seattle) &amp; <b>won first prize</b> with a total cash prize of \$3000 awarded by Government of India and MAIT.         </li> <li> <b>Best B.Tech Project:</b> Awarded to the top 4 major projects by the CSE department at MAIT.         </li> <li> <b>Outstanding Achievement Award:</b> Conferred by the CSE department at MAIT among 180 students (batch of 2018).         </li> <li> <b>Secretary, Association of Computing Machinery:</b> Served in the capacity of Secretary of 80+ strong team of ACM-MAIT Student Chapter during 2015-2016.         </li> <li> <b>Blogging:</b> Maintain an active blog at <a href="https://sominwadhwa.github.io/blog">sominwadhwa.github.io/blog</a> to document some of my experiences &amp; selected projects (for reproducibility).         </li> </ul>	