

EDUCATION	<ul style="list-style-type: none"> • 2014-15 MS in Computer Science at <i>Carnegie Mellon University</i> QPA: 4.07/4 • 2010-14 B.Tech in Computer Science and Engineering with Honours, and Minor in Mathematics, <i>Indian Institute of Technology, Bombay</i> <ul style="list-style-type: none"> • GPA: 9.80/10 - Ranked 1st in the department • Recipient of Institute Silver Medal & Jayati Deshmukh Memorial Gold Medal • 2010 All India Senior School Certificate Examination, 96.20% - CBSE Merit Certificates for being in the top 0.1% in India in Physics, Chemistry and Maths
WORK EXPERIENCE	<p>Machine Learning R&D Intern <i>Bloomberg, NYC</i> Summer 2015 Studied and devised ensemble techniques based on strong classifiers to reduce training complexity, while achieving good performance on binary and multi-label classification problems with large datasets.</p> <p>Software Engineer Intern <i>Facebook, Menlo Park</i> Summer 2013 <ul style="list-style-type: none"> • Built a basic version of a new in-house application collection for the user timeline. • Worked with tools such as mercurial, javascript and HPHP, i.e, HipHop for PHP, a series of PHP execution engines and improvements created by Facebook. </p> <p>Visiting Scientist <i>IST Austria</i> Summer 2012 Formally verified the correctness of the delayed Continuous Time Markov Chain (CTMC) model for gene regulatory circuits for a 1-particle system.</p>
KEY ACADEMIC PROJECTS	<p>Nuclear Fusion Instability Detection (<i>MS project</i>) 2015 <ul style="list-style-type: none"> • Applied ML techniques to predict occurrence of instabilities in reactor's plasma core. • Studied and used distribution-to-real regression to apply classifiers on radial variables. </p> <p>Quantum Computing + NLP (<i>B.Tech thesis</i>) 2013-14 <ul style="list-style-type: none"> • Examined various search and optimization techniques - Viterbi algorithm, Boltzmann machines, Entropy maximization, Iterative Scaling, etc. • Applied Exponential Search algorithm to devise a quantum Viterbi for POS tagging. </p> <p>Supervised Mind Reading Spring 2015 Predicted meaningful natural language sentences given the MEG recordings corresponding to brain activity, using semantics and context vectors from recurrent neural networks (RNNs).</p> <p>Epilepsy Seizure Prediction Fall 2014 Forecasting seizures from intracranial EEG recordings using data-specific features such as Fourier frequencies and spectra, and bivariate features such as electrode-correlation.</p> <p>Clustering in Forecasting (<i>RnD project</i>) 2013 Performed detailed study of mathematical characteristics of various cluster-specific forecasting models to understand the fundamental reason behind clustering</p> <p>Quantum Computer Simulator Spring 2011 Developed a debugger-cum-simulator in DrScheme for building quantum networks.</p>
SCHOLASTIC ACHIEVEMENTS	<ul style="list-style-type: none"> • Silver Medalist (World Rank 41) at International Physics Olympiad 2010 • All India Rank 5 in IIT-JEE 2010 among 0.45 million candidates • All India Rank 1 in AIEEE 2010 among a million candidates • One of 100 Student Scholars selected to attend the Web Summit, Dublin in Nov. 2014 • Represented India at Asian Science Camp '09, Japan attended by 7 Nobel laureates • Kishore Vaigyanik Protsahan Yojana (KVPY) Scholar (2009-10) • INLAKS Award of Excellence at IIT Bombay (2011-14) • Awarded the Institute Academic Prize 4 times by IIT Bombay (2010-14) • Certificate of Merit and Gold medal in Indian National Olympiads in Physics, Chemistry and Astronomy, 2010 for being among the <i>top 35</i> in each
SKILLS & INTERESTS	<ul style="list-style-type: none"> • C/C++, Python, PHP, MIT-Scheme, \LaTeX 2_{ϵ}, MATLAB, MySQL, Git, Bash, HTML • Interested in Machine Learning, Artificial Intelligence, Natural Language Processing, Quantum Computation and Puzzle Games like Sudoku • Delivered seminars on Convex Optimization, Maximum Entropy, Computational Humour and Oracle Turing Machines at IIT Bombay
POSITIONS OF RESPONSIBILITY	<ul style="list-style-type: none"> • Teaching Assistant for 6 different courses in CS, Maths and Physics at IITB (2011-14) • Hostel Technical Citation and Organizational Color for improving the hostel's technical scene as Secretary for Technical Activities, 2011-12
EXTRA CURRICULAR ACTIVITIES	<ul style="list-style-type: none"> • Winner of the Institute Logic General Championship 2013 at IIT Bombay • 1st in 2013 and 3rd in 2011-12 at Techfest's Indian Sudoku Championship • Winner of BRAINZ Mental Ability Quiz at COFAS 2007 at CMS Lucknow