

## Education

Birla Institute of Technology & Science, Pilani	PILANI, RAJASTHAN, INDIA
<b>B.E. (Hons) Computer Science (CGPA: 7.80)</b>	<i>Aug 2014 – Jun 2018</i>
Gaurav High School and Jr. College	NAVI MUMBAI, MAHARASHTRA, INDIA
<b>Maharashtra State Board of Higher Secondary Education (86.46%)</b>	<i>Jul 2012 – Jul 2014</i>
Delhi Public School	NAVI MUMBAI, MAHARASHTRA, INDIA
<b>Central Board of Secondary Education (92%)</b>	<i>Jul 2010 – Jul 2012</i>

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## Work Experience and Internships

OYO Rooms	GURGAON, HARYANA, INDIA
<b>Software Developer I (Finance Tech Team)</b>	<i>Jul 2018 – present</i>
<ul style="list-style-type: none"><li>Working on building new features and implementing business logic changes in the automated reconciliation of "Smart"-tier OYO partner hotels.</li><li>Worked on building a predictive scoring system to recover outstanding dues from partner hotels.</li><li>Responsible for writing, reviewing and maintaining production grade code in OYO's legacy finance software platform.</li><li>Participated in hiring at OYO. Shadowed and conducted interviews of SDE candidates.</li></ul>	
IBM India Software Labs	BANGALORE, KARNATAKA, INDIA
<b>Intern (Watson IoT Team)</b>	<i>Jan 2018 – Jun 2018</i>
<ul style="list-style-type: none"><li>Worked on an IoT enabled solution that monitors energy consumption in large commercial buildings and complexes such as retail stores, office buildings, shopping malls etc.</li><li>Responsible for various tasks related to hardening the research prototype to a marketable product: writing software components that help to integrate the UI, analytics and data stores; writing installation scripts to set up the end-to-end system.</li><li>Performed knowledge transfer and upskilling of the business teams.</li></ul>	
Samsung Research Institute	NEW DELHI, INDIA
<b>Summer Intern (Network Intelligence Team)</b>	<i>May 2017 – Jul 2017</i>
<ul style="list-style-type: none"><li>Learning patterns in cell-phone users' network activity and suggesting time slots for installing software updates.</li><li>Project work involved learning about the use of Recurrent Neural Networks for analysis of time-series data.</li></ul>	
Central Electronics Engineering Research Institute (CEERI)	PILANI, RAJASTHAN, INDIA
<b>Summer Intern (Digital Systems Group)</b>	<i>May 2016 – Jul 2016</i>
<ul style="list-style-type: none"><li>Performed Feature Extraction and Classification of EEG Signals.</li><li>Part of a larger research effort on Brain Computer Interface (BCI) at Digital Systems Group, CEERI Pilani.</li><li>Project work involved learning about the major steps in a BCI system, Principal Components Analysis for feature extraction and classification using Convolutional Neural Networks.</li></ul>	

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## Projects

- Fully Convolutional Networks for Semantic Segmentation (Paper Implementation):** Implementation of the landmark paper by Long, Shelhamer and Darrell on Fully Convolutional Neural Networks for Semantic Segmentation of images using Tensorflow deep learning library. Github repo: <https://github.com/plantsandbuildings/fcn>
- Ground-up Implementation of Le-Net:** Implementation of a LeNet architecture in C++ without using any non-standard libraries. This was done solely for expository purposes - it is not intended for practical use. Github repo: <https://github.com/plantsandbuildings/cpp-cnn>
- Biogeography Based Optimization for Global Routing in VLSI design:** Semester project under the guidance of Dr. Lavika Goel at CSIS department, BITS Pilani.
- Named Entity Recognition using Hidden Markov Models:** Project work carried out at Web Intelligence and Social Computing (WISoC) Lab, BITS Pilani.

## Awards & Achievements

- **Teaching Assistant, Data Structures and Algorithms course:** Co-supervised two lab sections and contributed to design of lab assignments. DSA is a compulsory course for all Computer Science sophomores at BITS, Pilani.
  - **ACM-ICPC 2015, ranked 85th out of over 1000 participating teams:** Qualified for Chennai on-site regional round
  - **Final Shortlist for Aditya Birla Scholarship:** awarded only to students with top scores in various engineering entrance examinations in India
  - **JEE Advanced 2014, All India Rank 2605:** Approximately 1,300,000 students appeared for JEE in 2014
  - **BITSAT 2014, Scored 416 out of a maximum possible 450:** Out of approximately 150,000 students that attempt the exam every year, only 256 scored higher than 400 in 2014
  - **Regional Mathematics Olympiad 2012, Greater Mumbai Division:** Qualified for Indian National Mathematics Olympiad. Attended INMO Training Camp at Homi Bhabha Center for Science Education, Mumbai
  - **Selected for Kishore Vaigyanik Protsahan Yojana (KVPY) Mentorship Scheme, 2012: All India Rank: 366.** Invited to National Science Camp at IISc Bangalore.
  - **Qualified National Standard Examination in Junior Science (NSEJS), 2012:** Selected to appear for Indian National Junior Science Olympiad (INJSO). **Only 300 students all across India are selected.**
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## Technical Skills

**Programming Languages:** C/C++, Ruby, Java, Python, BASH, JavaScript

**Web & Database Technologies:** Ruby on Rails, Spring Boot, Microservices Architecture, PostgreSQL, Kafka, Redis, Sidekiq, Nginx, NodeJS, Django, Jekyll (static website generator), Heroku. Familiarity with AWS cloud (EC2, RDS, S3, Elastic Beanstalk).

**Dev Tools:** Git, Docker, TravisCI, Jenkins. Proficient at Linux CLI.

**Machine Learning/Scientific Computing:** Tensorflow, Keras, Theano, Scikit-Learn, Numpy, Pandas, Matplotlib, mlpack

**Miscellaneous**  $\text{\LaTeX}$ , Brainf\*\*k

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