

# Aditya Ambasth

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<b>EDUCATIONAL DETAILS</b>	<b>: B-Tech in Computer Science &amp; Engineering</b> SRM University, Chennai CGPA: 8.32/10	2013-2017
	<b>Higher Secondary Education (CBSE)</b> Jawahar Vidya Mandir, Shyamali, Ranchi All India Senior School Certification Examination (AISSCE): 85.8%	2010-2012
	<b>Secondary Education (ICSE)</b> St. Anthony's School, Ranchi Indian Certificate for Secondary Education: 86.4%	2009-2010
<b>PPROFESSIONAL EXPERIENCES</b>	<b>: IIT-Kharagaur, Research Intern for <i>National Digital Library</i></b> Guide: <b>Dr.Pabitra Mitra</b> (Optimizing shards and replica of Apache Solr cloud for a large client size)	June'16-July'16
	<b>TextNook</b> , an online solution for books ( <a href="http://www.textnook.com">www.textnook.com</a> ) Worked on: <b>Django-python framework</b> (Generating JSON Web Token for third party clients with API key)	Dec'15
	<b>The Climber</b> , an educational start-up ( <a href="http://www.theclimber.in">www.theclimber.in</a> ) <i>Summer Intern</i> as <b>Web Developer</b> <b>Director (Technology)</b> ; Member of the Executive Board (Best start up award at <i>Buzzwing 2015</i> out of 220 entries, IIM Bangalore)	April '15-Mar'16
	<b>Vodafone Mobile Services Ltd.</b> <i>Winter Intern</i> in Ranchi Circle office Worked on: <b>Information Security and Network architecture</b> (Security for Switching system, MPLS Cloud, IP pooling, NIPS, NIDS)	Dec' 14
<b>PROJECTS</b>	<b>: Specialized Emotion Detection on Text</b> <b>(Final Year Engineering Major Project)</b> <ul style="list-style-type: none"><li>• Detecting the basic seven emotions in text conversations.</li><li>• Quantifying emotion range for given sentence.</li></ul>	Jan'17-Mar'17
	<b>Semantic Search Engine</b> <b>(Senior Student Member, SRM NLP and Machine learning lab)</b> <ul style="list-style-type: none"><li>• elasticsearch implementation.</li><li>• In charge of recruitments and Team building.</li></ul>	April'16-Dec'16
	<b>Smart Cart: A Novel approach to supermarket shopping</b> <b>(Accepted as a full paper entry to IEEE-WEICON-ECE, Dhaka, 2015, co-author)</b> <ul style="list-style-type: none"><li>• Deals with problem like long queues, inventory tracker and stock management.</li><li>• Entailed creating the application interface using Java Netbeans and Sql for data storage.</li></ul>	Nov'15

**Concept based query expansion:** A modern approach in Information Retrieval (IR) System Oct'15  
(Developed in *SRM Natural Language Processing Lab*)

- Combining both thesaurus based and statistical approaches to enhance the query response.

**Iris tracking for changing positions in slider of video player** July'15  
(Developed as a participant at *HackIndia, Bengaluru*)

- Using *VLC media player* with python libraries.
- Involves working with *Viola Jones Face Detection Algorithm* to detect the eyes in video sequences and interpreting the distance to control the media player

**Face authentication in video using webcam** June'15  
(**MIT Kumbathon**, organized by *MIT Media Labs, USA*)

- Nasik, India has been selected as an innovation sandbox for tech-based solutions to **mitigate problems in developing nations**.
- Developing a database system to authenticate the face detected from feed using a webcam in developing nations.

**Wireless data acquisition and representation** Aug'14-July'15  
(Formula Electric Vehicle, **4ze Racing Team** at SRM University)

- Worked as telemetry engineer, to acquire real time parameters like speed, distance, battery statistics and current location.
- Data visualization of using *Xively API* on Java Platform.
- Web Development for the team website

**INDEPENDENT:** **Information Security-1 (NPTEL) - Prof Dr.V.Kamakoti, IIT Madras** March 2015  
**COURSEWORK** **Machine Learning-Andrews Ng (YouTube Videos)** May 2015

**TECHINICAL SKILLS & COMPETENCIES** : Java, C++, Python, Linux, HTML, CSS, Javascript  
WordPress, GIT, MySQL, Apache Solr, elasticsearch, Mongo DB

**ACTIVITIES & ACHIEVEMENTS:**

- IET India Scholarship Award 2016 Regional Winner and National Finalist** out of *8000 entries*.
- Won an interdisciplinary **innovation challenge** organized by SRM University, **Konvole'15** for prototyping an **assistive device aimed to help in daily living of people with multiple-impairment**.
- Vice-President, Communications**, Youth to Business, **AIESEC in Chennai '14**
- Best project by *Physics and Nanotechnology department* in SRM University on designing the "**most economical fire detection system**", 2013
- All India Rank-3** in *National Cyber Olympiad, 2012*
- Ethical Hacking Mentor** to 120+ students under the [MyCaptain program](#)
- Obtained a **Teaching Diploma** in Painting and fine arts by *Bangiya Sangeet Parishad*, Affiliated to **Rabindranath Bharti University, Kolkata**
- Best Ethical Hacker Award** by *National Education Security Awareness(NISEA) 2011 at Birla Institute of Technology, Mesra*