

Aditya Ambasth

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EDUCATIONAL DETAILS	B-Tech in Computer Science & Engineering SRM University, Chennai CGPA: 8.153/10 (Until 6 th semester)	July 2013-present
	Higher Secondary Education (CBSE) Jawahar Vidya Mandir, Shyamali, Ranchi All India Senior School Certification Examination (AISSCE): 85.8%	2010-2012
	Secondary Education (ICSE) St. Anthony's School, Ranchi Indian Certificate for Secondary Education: 86.4%	2009-2010
PPROFESSIONAL EXPERIENCES	IIT-Kharagaur, Research Intern for <i>National Digital Library</i> Guide: Dr.Pabitra Mitra (Optimizing shards and replica of Apache Solr cloud for a large client size)	June'16-July'16
	TextNook , an online solution for books (www.textnook.com) Worked on: Django-python framework (Generating JSON Web Token for third party clients with API key)	Dec'15
	The Climber , an educational start-up (www.theclimber.in) Summer Intern as Web Developer Director (Technology) ; Member of the Executive Board (Best start up award at <i>Buzzwing 2015</i> out of 220 entries, IIM Bangalore)	April '15
	Vodafone Mobile. Ltd. Winter Intern in Ranchi Circle office Worked on: Information Security and Network architecture (Security for Switching system, MPLS Cloud, IP pooling, NIPS, NIDS)	Dec' 14
	Semantic Search Engine (<i>Senior Researcher, SRM NLP and Machine learning lab</i>) <ul style="list-style-type: none">Implementation of Knowledge Graph and Unified Networking language.Concept Based search and ranking mechanism.Automated concept based smart answer generation.	April'16-present
PROJECTS	Smart Cart: A Novel approach to supermarket shopping (<i>Accepted as a full paper entry to IEEE-WEICON-ECE, 2015, co-author</i>) <ul style="list-style-type: none">Deals with problem like long queues, inventory tracker and stock management.Entailed creating the application interface using Java Netbeans and Sql for data storage.	Nov'15
	Context based resolution of acronyms/abbreviations (Developing in <i>SRM Natural Language Processing Lab</i>) <ul style="list-style-type: none">To devise a simple tool embedded in a reader which expands acronyms based on the context.	Nov'15



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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*)

- To use open source software *VLC media player* in making effective changes using 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 IDE-Net beans, Eclipse, Blue-J, C, C++, HTML, CSS, PHP, Python, Linux, Ethical Hacking, Node Js, WordPress, GIT, MySQL, JavaScript, Apache Solr, elasticsearch, Mongo DB

ACTIVITIES & ACHIEVEMENTS:

- IET India Scholarship Award 2016 Regional Winner** out of 7000 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
- Taught Ethical Hacking to 50+ 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*



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