

# Aditya Ambasth

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**EDUCATIONAL DETAILS** : **B-Tech in Computer Science & Engineering** July 2013-present  
SRM University, Chennai  
CGPA: 8.153/10 (Until 6<sup>th</sup> semester)

**Higher Secondary Education (CBSE)** 2010-2012  
Jawahar Vidya Mandir, Shyamali, Ranchi  
All India Senior School Certification Examination (AISSCE): 85.8%

**Secondary Education (ICSE)** 2009-2010  
St. Anthony's School, Ranchi  
Indian Certificate for Secondary Education: 86.4%

## PPROFESSIONAL

**EXPERIENCES** : **IIT-Kharagaur, Research Intern for *National Digital Library*** June'16-July'16  
Guide: **Dr.Pabitra Mitra**  
(Optimizing shards and replica of Apache Solr cloud for a large client size)

**TextNook**, an online solution for books ([www.textnook.com](http://www.textnook.com)) Dec'15  
Worked on: **Django-python framework**  
(Generating JSON Web Token for third party clients with API key)

**The Climber**, an educational start-up ([www.theclimber.in](http://www.theclimber.in)) April '15  
Summer Intern as **Web Developer**  
**Director (Technology)**; Member of the Executive Board  
(Best start up award at *Buzzwing 2015* out of 220 entries, IIM Bangalore)

**Vodafone Mobile. Ltd.** Dec' 14  
Winter Intern in Ranchi Circle office  
Worked on: **Information Security and Network architecture**  
(Security for Switching system, MPLS Cloud, IP pooling, NIPS, NIDS)

**PROJECTS** : **Semantic Search Engine** April'16-present  
(**Senior Student Member**, SRM NLP and Machine learning lab)

- Implementation of Knowledge Graph and Unified Networking language.
- Concept Based search and ranking mechanism.
- Automated concept based smart answer generation.

**Smart Cart:** A Novel approach to supermarket shopping Nov'15  
(**Accepted as a full paper entry to IEEE-WEICON-ECE, 2015, co-author**)

- Deals with problem like long queues, inventory tracker and stock management.
- Entailed creating the application interface using Java Netbeans and Sql for data storage.

**Context based resolution of acronyms/abbreviations** Nov'15  
(Developing in SRM Natural Language Processing Lab)

- To devise a simple tool embedded in a reader which expands acronyms based on the context.



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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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