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Work Experience

Research Intern | [Indian School of Business, Hyderabad](#)

June 2018 - Present

Data mining and inter-domain analysis of i) venture capital firms and ii) filing of patents in India.

Web Administrator | [International Institute of Information Technology, Hyderabad](#)

July 2018 - Present

Prof. Abijit Mitra

Responsible for overhaul of frontend UI/UX of various websites under the professor and eventual migration to newer frameworks.

Data Analytics Intern | [Lumata Digital, Noida](#)

June 2017 - July 2017

Twitter Sentiment Analysis

Designed and implemented sentiment analysis to use n-grams which led to over 80% accurate sentiment detection of text and emoticons on search text based on hashtag or username.

Software Development Intern | [Authbase, Hyderabad](#)

August 2017 - December 2017

Worked on designing and developing the frontend for a vulnerability search engine and an admin dashboard for Authbase, a NASSCOM 10K startup.

Teaching Assistant | [International Institute of Information Technology, Hyderabad](#)

August 2017 - May 2018

IT Workshop - 1, IT Workshop - 2

Teaching undergraduate students python scripting, bash scripting, web development, introduction to networking and application security and web frameworks.

Education

International Institute of Information Technology, Hyderabad

2015 - 2020

B.Tech in Computer Science and **MS by Research** in Exact Humanities

Courses: Data Structures, Algorithms, Natural Language Processing, Distributed Systems, Human Computer Interaction, Computer Networks, Artificial Intelligence, Digital Logic and Processors, Graphics, Operating Systems, Database Systems, Principles of Information Security, Structured System Analysis and Design, Privacy and Security in Online Social Media, Ontology, Confluence of Humanities and Computer Science

Technical Skills

Advanced: C/C++(with STL), Python, JavaScript, MySQL, R, HTML, Selenium, jQuery, Bootstrap

Intermediate: MVC, Web2Py, Git, OOPs, SDLC. Django, NodeJS, AngularJS

Misc: Linux, Lucene, BaseX, OpenGL3

Research Projects

2017 Gujarat Elections in the Public Space Analyzing Discourses on Twitter and Print Media

Under: Dr. Radhika Krishnan

Analyzing the discussions on print media and twitter to find out the differences and similarities between the issues discussed on each one of them, during the course of Gujarat Elections 2017

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- Major Projects** **Twitter Sentiment Analysis | [Statistical Methods in Artificial Intelligence](#)** *May 2018*
 Calculated the normalized sentiment score using three different pattern recognition techniques (maximum entropy, naive bayes, {linear, polynomial, RBF} kernel SVM) and compared the results produced by each method. Also used different feature settings (POS-tagging, stemming) to improve the results of the classifiers.
- Mortality Prediction of ICU Patients** *December 2017*
 Prediction of likelihood of mortality of ICU patients given time series data of vital statistics. This problem is the subject of a number of machine learning challenges and many solutions which can predict mortality accurately have been identified. The project was a comparative study of different machine learning methods and their utility in this task.
- Improving Parsing Using Distributional Semantics | [Natural Language Processing](#)** *August 2017*
 Improved capabilities of a traditional CYK Parser so that it could handle unknown words using distributional semantics to create a word embedding. Given sentence would be tagged with cluster centres before running CYK algorithm so that unknown words can also get parsed into a parse tree.
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- Projects** **Mini Shell | [Operating Systems](#)** *August 2017*
 Developed a mini shell which would support all basic linux commands such as ls,cd,mkdir etc. The shell also supported background processes , signal handling along with avoiding zombie processes.
- Mini SQL Engine | [Databases Systems](#)** *August 2017*
 Developed a mini SQL engine in Python which was able to parse queries and perform basic SQL operations such as SELECT, FROM, WHERE along with aggregate and JOINS.
- Automatic File Syncing System | [Computer Networks](#)** *April 2017*
 Developed a system which would keep two directories in sync with each other by keeping track of file creation, updation and deletion in any of them.
- Proxy Server | [Computer Networks](#)** *April 2017*
 Developed a python based HTTP-Proxy Server capable of handling requests between multiple clients and servers.
- Ultimate 4x4 tic-tac-toe bot | [Artificial Intelligence](#)** *January 2017*
 Developed an Ultimate 4x4 tic-tac-toe bot using minimax search and alpha beta pruning technique. Also a heuristic was developed based on various board positions
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Open Source Contributions **Linux Team Member | [FOSSASIA](#)**
 Susper Search Engine
 Worked on developing Google-like frontend for Susper search engine.

Positions of Responsibility **Student Placement Coordinator | IIIT H, 2018** **Core Team member | Felicity, IIIT H, 2016**
Academic Help Cell Coordinator | IIIT H, 2017 **Cultural Representative | IIIT H, 2016**
Apex Member | IIIT H, 2017 **Constitution Drafting Committee | IIIT H, 2016**

Achievements **Pratibha Scholarship | Aditya Birla Group, 2015 - Present**
Student of the Year | G.G. International School, 2015 & 13
South Asian Finalist | Horlicks Wizkids, 2014
Kaladeep Scholarship | G.G. International School, 2013
Star Correspondent | Times of India, 2013

Social Cause **Founder | [Vaatsalya](#), A drive against child sexual Abuse**