



**Aditya Chellam**  
**Computer Science & Engineering**  
**Vellore Institute of Technology, Vellore**  
**Specialization: Core**

**Ph: 7588997206**  
**UG Second Year**  
**Male**  
**DOB: 17-05-1997**

Examination	University	Institute	Year	CGPA%
B.Tech	VIT Vellore	VIT Vellore	2017	9.00
Higher Secondary	CBSE	Bhavan's Civil Lines	2015	93.80
Matriculation	CBSE	Modern School	2013	92.60

**Email:** y.s.aditya123@gmail.com / aditya.chellam2015@vit.ac.in

**Work Samples:** <https://github.com/AdityaChellam>

### **SCHOLASTIC ACHIEVEMENTS**

- Awarded State Rank 10<sup>th</sup> in Middle School Scholarship Examination (MSSE) conducted by the Government of Maharashtra.
- Awarded State Rank 2<sup>nd</sup> (Maharashtra) in the 14<sup>th</sup> National Cyber Olympiad Conducted by SOF.
- Awarded 3<sup>rd</sup> Position (Nagpur District) in Project Water Efficient City organized by NEERI Foundation.
- Awarded Shrimati. S.A. Rathod scholarship in English intermediate/+2 for being subject topper.
- Received Outstanding grade in IT Wizard Programming and Productivity curriculum.
- Awarded Certificate of Merit by Royal Australian Chemical Institute.

### **RESEARCH AND ACHIEVEMENTS**

#### **AI-based Financial Banking Bot**

*1<sup>st</sup> Winner Code2Create, ACM,  
Hackathon*

- Developed a conversation based chatbot for chat based user transactions analyzing customer behaviour over time.
- Used machine learning classifier to comparatively decide on most optimum solution for NLP.

#### **Improving Existing Data Security Standards in Cloud Computing using Trust Based Machine Learning**

*Winter, 2017  
Prof. S Ananda Kumar  
(IJRASET, Vol. 5, Issue VI, June 2017)*

- Improving the current data security mechanism and scaling it to incorporate big data for future use.

- Exploring Machine Learning algorithms for implementing trust based security mechanism.

#### **A Novel Attraction Segregation based Image Compression Technique**

*Winter, 2017*  
*Prof. Gopinath M P*  
*(IJRASET, Vol. 5, Issue VI, June 2017)*

- Comprehensively analysed existing compression techniques
- Proposed a attractive feature selection based lossy compression technique

#### **Meri Awaaz – Smart Glove Learning Assistant for Mute Students and teachers**

*Winter, 2017*  
*Prof. Priya G*  
*(IJIRCCE, Vol. 5, Issue 6, June 2017)*

- Comprehensively analysed existing compression techniques
- Proposed a attractive feature selection based lossy compression technique

#### **A Review on Different Techniques of Social Media Analysis**

*Fall, 2016*  
*Prof. L Ramanathan, Prof. Ramani S*  
*(Completed. Under Review)*

- Surveyed the data mining techniques currently in use (as of Nov 2016) and reviewed the sailent features of each.
- Reviewed algorithms improving efficiency of existing mining technique through boosting.

#### **Analysis of social media metric and human behavior on social media with big data**

*Winter 2017,*  
*Prof. L Ramanathan, Prof. Ramani S*  
*(Ongoing)*

- Exploring and Implementing techniques to analyse human perception of brand on social media platforms.
- Working on the application of Sentiment Analysis in the business domain.

#### **Intrusion Detection in Computer Networks using Lazy Learning Techniques**

*Winter, 2017*  
*Prof. S Ananda Kumar*  
*(Completed. Under Review)*

- Proposed use of lazy learning techniques for network intrusion detection over existing eager learning algorithms

- Compared, contrasted and determined the best among multiple lazy learning algorithms based on performance efficiency

## ACADEMIC PROJECTS

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### **Functional Calls Implementation** | Operating Systems, Prof. V Vijayasherly

- Added new functionality accessible via function calls to Arca, an experimental OS built on top of the Unix 6.0 Kernel.
- Added Virtual Memory management Functionality to the OS.

### **Integrated Network for Health Organizations** | Database Management Systems, Prof. L Ramanathan

- Developed an online service platform to collate the services offered by the Health Organizations based on the type of issue encounter using PHP, Python and MySQL.
- Incorporated features to book/cancel appointments pertaining to specifically requested services.

## OTHER PROJECTS

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### Gesture Controlled Assistant for Deaf and Mute People | ARCS Hackbattle, 2017

- Developed a smart glove to interpret hand gestures and motions based on American Sign Language (ALS) using Arduino Uno and Raspberry Pi.
- Built cross platform framework for its functioning including an Android, iOS and Web Application.

### Volt Smart Metering | CodeSpace CSI, 2017

- Developed an application to facilitate prepaid electricity options for optimal power consumption.
- Novel billing mechanism incorporated as solution for smart electricity in digital India.

### Dream Interpretation Website | SITE-VIT, 2017

- Built a Website for keyword search based dream interpretation.
- Developed an android app to keep dream journal and perform dream analysis.

## POSITIONS OF RESPONSIBILITY

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**Chief Executive Editor, Times of India, Times Buzz**

2012-2013

- Responsible for managing the Times of India Newspaper's Buzz Pages for a period of 2 weeks.
- Headed a team of **4 students** and a host of daily reporters, article writers and contributors in publishing Buzz page of the Daily Newspaper.

**Core Committee Member at Youth Red Cross, VIT University**

2016-2017

- Responsible for managing blood donors and patients for a period of 2 years.
- Guiding and assisting freshmen initiates of the club and teaching them the workings of Club Events such as Blood Donation and Awareness Campaigns.

**EXTRA CURRICULAR ACTIVITIES**

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- Awarded **International Rank 2** for cover page design on World Innovation Day organized by City Montessori.
  - Achieved **1<sup>st</sup> position** in CBSE Clusters Sports and Games in Table-Tennis, and **Qualified and Played Nationals**, 2013.
  - Awarded **Gold** in State Level Table Tennis Tournament, 2011 and won numerous other district level tournaments.
  - Awarded Runners-up Trophy in District Level Football Tournament.
  - Awarded Gold medal for 2 consecutive years in Intra-School Football tournament.
  - Completed Pravinya Level in Sanskrit with a **perfect score**.
  - Completed a Short Program in Animation Design and Effects by Mentor School of Animation and VFX.
  - Completed ROBOTech Workshop on Fundamentals of Robotics and Electronics.
  - Successfully passed Intermediate Grade Drawing Examination by Government of Maharashtra with B-grade.
  - Completed a crash course in Beginner Level German Language.
  - Won best project (1<sup>st</sup> prize) in university (SCOPE school) IoT exhibition
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