

ADITYA AS

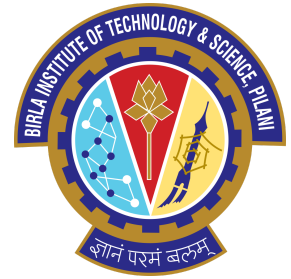
MALE, 20 YEARS

B.E. (Hons.) Computer Science (2013-2017)

Birla Institute of Technology and Science Pilani

Github Link: <https://github.com/Aditya-AS>

Webpage Link: <https://aditya-as.github.io/>



EDUCATION

BE (Hons.) Computer Science	2017	BITS Pilani	7.96/10	
BIEAP	2013	Vijaya Ratna Junior College.	97.4%	100% in Math and Physics in both years. Stood first in my college.
BSEAP	2011	St. Mary's High School.	89.3%	100% in Science.

COURSES UNDERTAKEN

Linear Algebra, Differential Equations, **Computer Programming**, Electrical Sciences, Logic in Computer Science, Digital Circuits and Design, **Object Oriented Programming**, **Discrete Mathematics**, **Data Structures and Algorithms**, **Database Systems**, **Microprocessor Programming**, **Computer Architecture**, Theory of Computation, **Operating Systems**, **Design and Analysis of Algorithms**, Computer Networks, Compiler Construction, **Data Mining**, **Artificial Intelligence**, Image Processing, **Parallel Computing**, Number Theory.

WORK EXPERIENCE

1. TEACHING ASSISTANT(CS F415), BITS PILANI

AUG 2016 - PRESENT

- Teaching Assistant for the course DATA MINING.
- Involved in conducting laboratory sessions, preparing lab sheets and assignment questions.

2. TEACHING ASSISTANT(CS F301), BITS PILANI

AUG 2016 - PRESENT

- Teaching Assistant for the course PRINCIPLES OF PROGRAMMING LANGUAGES.
- Involved in assisting the instructor during tutorials, preparing assignment questions and evaluating the submissions etc.

3. INTERN, BOOMERANG COMMERCE

MAY 2015 - JUL 2015

- [Boomerang Commerce](#) is a Startup that gives dynamic price optimization solutions to e-commerce retailers.
- Built a web application to handle the user accounts of the employees in third party websites like Unfuddle, AWS and Atlassian Jira.
- My work included automating the user creation process as well as creating a single portal where account details of any employee could be monitored in all accounts.
- Used Dropwizard to create a RESTful backend and AngularJS for making a responsive SPA.

4. RESEARCH INTERN, MACHINE VISION LAB, CSIR-CEERI

APR 2015 - JUL 2015

- Worked under the guidance of Dr. Jagdish Lal Raheja, Sr. Principal Scientist, CSIR-CEERI.
- Worked on Activity Recognition with Emphasis on Fall from a normal camera feed.
- Classified actions like Moving, Lying, Standing and Fall
- Used SVM for classification.

ACADEMIC PROJECTS

➤ PROJECT FOOD SENSE (Dr. Lavika Goel, Asst. Prof)

AUG 2016 - PRESENT

- Working on classifying food items into classes according to their age and also predict if they are rotten or not
- Completed the literature survey, made a template algorithm. Currently working on the dataset.

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ROOM NO 219, RANAPRATAP BHAWAN, BITS PILANI, RAJASTHAN - 333031.

- **PARALLEL DBSCAN (Dr. Poonam Goyal, Assoc. Prof)** **AUG 2016 - PRESENT**
 - Currently doing a literature survey on the different approaches to parallelizing DBSCAN
 - Plan to come up with a design for a parallel DBSCAN algorithm that would scale.
- **AUTOMATED QUESTION ANSWERING SYSTEM** **SEP 2015 - DEC 2015**
 - Made an Automated Question Answering System as part of a course project.
 - Used Google API for Python to query google and get webpages as results.
 - Applied Natural Language Processing to extract answer from the text.
 - Used the concept of n-grams and levenshtein distance for similarity comparison.
- **COMPILER CONSTRUCTION** **MAR 2016 - MAY 2016**
 - Coded a fully functional compiler for a toy language.
 - Implemented Lexer, Parser, Semantic Analyzer, Intermediate Code Generator and Code Generator modules in C
- **PARALLEL FILE SYSTEM COMPARISON** **JAN 2016 - FEB 2016**
 - Built a program when given the input k filesystems in the corresponding tree representations,
 - Prints out if all the filesystems are exact copies or a majority of them have a common subtree or none of the above.
 - Made two versions one using Pthreads and the other using OpenMP. All coding was done in C++.
- **PARALLEL BACKTRACKING FRAMEWORK** **MAR 2016 - MAY 2016**
 - Implemented a framework to solve problems that can be solved by backtracking.
 - Specific solver specific to problem has to be provided by the user.
 - Framework takes solver function as input and parallelizes using fixed number of nodes in a cluster - given by user.
 - Hybrid model Shared Memory + Message Passing

ACHIEVEMENTS

- Received Proficiency Prize for overall good performance in School for **five consecutive years** from 6th to 10th standard.
- Topped my College scoring 98.2 % in 11th standard. Also came in the **top one percentile** students in Andhra Pradesh(then).
- Passed the Australian National Chemistry Quiz(ANCQ) with **high distinction**, conducted by The Royal Australian Chemical Institute (RACI).

POSITIONS OF RESPONSIBILITY

- **Undergraduate Teaching Assistant**, Data Mining
- **Undergraduate Teaching Assistant**, Principles of Programming Languages
- **Project Lead, Gyanbodh**, An initiative which provides evening tuitions to kids, undertaken by the Pilani Chapter of **Nirmaan Organisation** (a non-profit Organisation started by the students of BITS-Pilani).
- **Head Boy** of my school in 10th grade. Actively participated in School Parliament where discussions used to happen regarding decisions to be taken.

EXTRA CURRICULAR ACTIVITIES

- Member, Computer Science Association, BITS Pilani.
- Member, Faculty Student Council, BITS Pilani.
- Volunteer, Nirmaan Organisation.
- NCC Cadet for 2 years, Received 'A' level Certificate.

TECHNICAL PROFICIENCY & INTERESTS

- **Programming Skills:** C(very proficient), C++, C#, JAVA(very proficient),Python(proficient), MATLAB(proficient), Octave, Shell Scripting, Bash, Databases(Oracle SQL), Prolog, Verilog.
- **Libraries:** OpenCV, Aforge.NET, EmguCV(Wrapper of OpenCV for C#), NLTK, OpenMP, OpenMPI, Dropwizard, AngularJS, Bootstrap, JavaScript, MySQL.
- **Major Interests:** Data Mining, Machine Learning, Algorithm Analysis, Theoretical Computer Science, Artificial Intelligence, Parallel Computing.

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