

Aman Singh

CS UNDERGRAD ·

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Education

IIT Mandi

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING (ONGOING)/2019

- Current CGPA : 7.67

Mandi, Himachal Pradesh

Aug. 2015 - PRESENT

Marigold Public School, Noida

XII FROM CBSE BOARD

- Scored : 89.8 %

Noida, U.P.

July. 2014

Marigold Public School, Noida

X FROM CBSE BOARD

- Scored : 9.8 CGPA

Noida, U.P.

July. 2012

Courses

Artificial Intelligence,
Pattern Recognition,
Computer Organization,
Advanced Database Practicum,
Introduction to Communicating and Distributed Processes,
Introduction to Formal Concept Analysis(Coursera),
Probability and Random Processes,
Advanced Data Structures and Algorithms ,

Projects

Data Mining-Modification of ECLAT/LCM algorithms

FORMAL CONCEPT ANALYSIS PROJECT

- Worked on modifying the ECLAT / LCM algorithm by Dr. Christian Borgelt to work on distributed systems. The algorithm is used to mine Formal Concepts to build concept lattices.
- Made programs and scripts to test the algorithm on larger dataset.
- Generated boolean context from the CSV file to mine Formal Concepts from it.
- Given the task to parse JSON file to CSV such that concepts could be mined from it.

IIT Mandi

July. 2017 - Ongoing

Academic Project for Advanced Database Practicum Course

PANDORA - MUSIC STREAMING WEBSITE(RUBY ON RAILS)

- Developed this website using Ruby on Rails framework and MySQL database. Responsible for front-end, database schema and helped with back-end.

IIT Mandi

3rd Semester

Project on implementation of Formal Concept Analysis

CLASSIFICATION OF LIBRARY BOOKS

- Built a concept lattice of library books using Orient DB for a more meaningful classification and arrangement.

Central Library, IIT Mandi

June 2017 - July 2017

Using Arduino and AVR shield

VOICE CONTROLLED PICK AND PLACE ROBOT

- Won 3rd Prize in the robotics event of Inter-IIT Tech Meet.
- Worked on the program(written in C) and training of the AVR shield.

Inter-IIT Tech-Meet

2nd Semester, Jan. 2016- Feb. 2016

Built as Coursework

PATTERN RECOGNITION MODELS/CLASSIFIER

- Built Bayesian, K-Means Clustering and Gaussian Mixture Models classifiers for assignments using python libraries(pandas, numpy, scipy, sci-kit learn).

IIT Mandi

Aug. 2017 - Ongoing

Front-end and Webmaster

THE SOLAR LABS

- Developed the front-end of the main website and customer management system.
- Set up a WordPress blog for the Start-Up.

Mandi, H.P.

Feb. 2016- June. 2016

Two player CLI game made in first semester

TIC-STACK-TOE

- Interactive command line game written in C with a colorful interface.

IIT Mandi

Aug. 2015- Sep. 2015

Skills

Programming Languages : C++, C, Python, Bash,
Tools: Git, Ruby on Rails, OrientDB, Concept Explorer, MySQL, GNU Emacs, php, Arduino,
Jekyll, Wordpress, Python Libraries: Scipy, Numpy, Pandas, Scikit-Learn ,
Competitive Programming ,

Extracurricular Activity

PC Programming Club

CORE MEMBER

- Selected core member and project mentor to the official Programming Club.

IIT Mandi

Mar. 2017 PRESENT

Exodia (Annual Technical-Cultural Fest)

FINANCE HEAD AND CORE TEAM MEMBER

- Selected as the Finance head to the fest. Completed the tasks with integrity and responsibility.

IIT Mandi

Sept. 2016 Aug. 2017

GCS (Guidance and Counselling Service)

STUDENT MENTOR AND MEMBER, GUIDANCE AND COUNSELLING SERVICE 2016 & 2017

- Provided counselling and guidance to freshers as a mentor.

IIT Mandi

2016 & 2017

Honors & Awards

ACADEMIC

- 2016 **Teaching Assistant**, Introduction to Computation for Engineers course
- 2017 **Teaching Assistant**, Advanced Data Structures and Algorithms Course
- 2016 **Bronze Medal**, Inter-IIT Tech Meet 2016

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SPORTS

- 2016 **Gold Medal**, Intra-College Basketball tournament
- 2015 **Silver Medal**, Inter-Year Sports Tournament(Basketball)

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