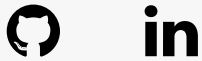# Arhant Jain

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Find Me

Applied Courses

> Database Management System
> Differential Equations
> Statistical Methods in AI (ML)
> Algorithms and OS
> Computer Programming
> Data Structures and Algorithms
> Communication Networks
> Time-Frequency Analysis

Languages and Tools

> C/C++
> Python
> Matlab
> HTML and CSS
> Microsoft Office

Certifications

> **Google**: Fundamentals of
  Digital Marketing | Jun'20

Frameworks

> Apache Spark
> GNU Debugger
> Scikit-learn & Matlab

Positions Held

Ex-Comm Member
Executive Committee
Member of IIIT-H
Toastmasters Club.

Mess Coordinator
Executive Member of the
College Mess Committee.

Education

B.Tech ECE + MS in Cogn. Science	**July,2016-Present**
IIIT Hyderabad	GPA(Hons)-9.25/10
Higher Secondary	**2015**
CBSE	85.20%
Secondary	**2013**
CBSE	CGPA-10/10

Work Experience

Research Assistant
Cognitive Science Lab, IIIT-H.

Head Teaching Assistant
Real analysis Course at IIIT-H.

Teaching Assistant
Codechef.

Projects

Mini SQL Engine `DBMS` `Python`

Mini SQL Engine was designed to run a subset of SQL queries using command line interface on terminal.

Cluster-Computing `Python` `Bash`

Apache Spark Architecture was used to process and solve custom problems on a huge dataset.

Indexing Data-Structures `C++` `OOPS` `DBMS`

Implemented B+ Trees and Linear Hashing data-structures using concepts of OOPS and Indexing

Classifier Analysis `Machine Learning` `Python` `Tensorflow`

Built a classifier to work on the CIFAR-10 dataset, reported the f1-score and accuracy on the test dataset.

Face Recognition `Machine Learning` `Numpy` `Python`

Performed an image recognition task using a Naive Bayes Classifier and a Linear Multi-Class Classifier.

Link State Routing Algorithm `Python` `Graph Algorithms`

Implemented the Link State Routing Algorithm using Dijkstra's Algorithm on a network of routers for calculating the Shortest path between any 2 routers.

Climate Modelling `Mathematica` `Mathematical Modelling`

Implemented an analytical model for the Temperature of the Earth using the Energy-balance equation.

Achievements

2020	>	Selected in Dean's List for Excellence in Academic Year 2019-20.
2016	>	Secured rank in Top 1% among 1.3 million candidates in JEE Mains 2016.
2013	>	Gold Medalist in International Master Mathematics Olympiad (IMMO)
2013	>	Bronze Medalist in International Olympiad of Mathematics (IOM)