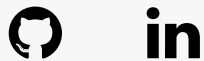# Arhant Jain

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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 CBSE	**2015** 85.20%
Secondary CBSE	**2013** CGPA-10/10

Work Experience

MariaDb Foundation　　　**Aug.'20-Present**
Extending the notion of Custom Aggregate Function which can be used as a Window Function.

Research Assistant　　　**May'20-Aug.'20**
Cognitive Science Lab, IIIT-H.

Head Teaching Assistant　**Aug.'19-Dec.'19**
Real analysis Course at IIIT-H.

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　`C` `Graph Algorithms` `Routing Protocol`
Implemented the Link State Routing Algorithm which calculates the optimum path between any two routers and it also generates the routing table for each router.

Climate Modelling　`Mathematica` `Mathematical Modelling`
Implemented an analytical model which calculates 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)