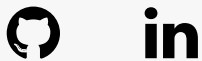# Arhant Jain

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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

> **Teaching Assistant**
  Real Analysis, ECE Lab
> **Member of Toastmaster's Club**
> **Mess Coordinator**

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

MariaDb Foundation   Oct.'20-Present
Extending the features of Aggregate functions to increase its usability as a Window Function.

Research Assistant   May'18-Present
Pursuing research under Prof. Kavita Vemuri on Cognitive Analytics by using Machine Learning techniques.

Projects

Speeding Post-Stroke Rehabilitation   `Research Project` `Data Analysis`

I'm working with the Brain's EEG signals to find a correlation between motor movements and inactive parts of the brain, to fasten the post-stroke rehabilitation. We deploy a complete pre-processing pipeline to Clean, Process and Analyze the EEG data signals. Further, Independent Component Analysis (ICA) is used to remove the noisy components.

Mini SQL Engine   `DBMS` `Python`

Mini SQL Engine was designed to run a subset of SQL queries using the command line interface on the 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+ Tree data-structure, which is a powerful tool for building indexes on the data-file records.

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

Built classifiers to classify the CIFAR-10 dataset and compare the f1-score and accuracy of the different classifiers.

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

Performed an image classification task using a Naive Bayes 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.

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)