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## EDUCATION

**CANDIDATE FOR MASTER OF SCIENCE IN COMPUTER SCIENCE (GPA: 4.0/4.0)**

Fall 2016 – Spring 2018 (Expected)

*Illinois Institute of Technology- Chicago, Illinois*

Courses: Software Engineering, Database Organization, Introduction to Data structures and Algorithms, Advanced Database Organization, Introduction to Algorithms, Software Project Management, Machine learning, Online Social Network Analysis, Advanced Data Mining.

Activities: Chicago Innovation Challenge, Investopedia simulator competition, Table Tennis.

## SKILLS

Programming skills	C, Java, SQL, Python, R, PHP, Django, CSS, HTML5
Platforms and Tools	PyCharm, Jupyter, R Studio, IntelliJ Idea, Git, Linux, MySQL, SQLite, SQL Developer
API	SQLITE, FITbit, Twitter

## RESEARCH PROJECTS

**Designing a Context-aware Recommendation system**

Chicago (Summer 2017)

*Under Dr.Yong Zheng, IIT Chicago*

- Implemented Gaussian mixture model on Collaborative Filtering models has been performed.

## ACADEMIC PROJECTS

**Online Social Network Analysis**

Chicago ( Fall 2017 )

- Community detection is performed on 2016 US presidential on the four candidates using Twitter API.
- Developed a Jaccard similarity model to perform the Link prediction on facebook network dataset.

**Advanced Data Mining**

Chicago ( Fall 2017 )

- Performed the Topic Modeling to understand the hidden features on 20News group and Yelp dataset.

**Crime Prediction**

Chicago ( Spring 2017 )

- Building a model to predict the crime rate based on demographic and economic information of a given locality.
- Implementing the model using Decision tree, Naive Bayes, linear SVM, linear regression using the Python 3.6.
- Imputed dirty data and modeled a Decision tree classifier with an accuracy of **81.29** percent.

**Online Grocery store**

Chicago ( Fall 2016 )

- Designed the ER database model and used it to create a relational schema.
- Drafted the SQL script on oracle database account using the SQL Developer IDE.

## PERSONAL PROJECTS

**NewsOptimism**

Chicago ( Fall 2017 )

- Implemented a python script to collect data from news websites periodically.
- Preprocessed the document term matrix to remove unwanted words.
- Developing a sentimental analysis to quantify how much the article published shows positive impact.

**Fitbit application**

Chicago ( Fall 2017 )

- Developed a program to collect user live calorie burned data(15 min delay) through Fitbit API.
- Tabulated the JSON formatted data into a schema defined as Sql database.
- Building an alert system to recommend a Food to the user based on the amount of calorie burnt.

**Miscellaneous Projects (<https://github.com/harishaaram>)**

Chicago ( Aug 2016 - Present )

- Developed a MVC web application using python's Django framework.
- Published an Alexa skill, [Thirukurral](#), on Amazon.com.
- Monitored internship opportunities from a list of companies' website using python script.
- Implemented a linear time algorithm (Kadane) for finding the maximum subarray of the difference of stock prices scrapped from Yahoo finance and built an alert system using python as part of the Investopedia competition.
- Developed a script to sync local files in linux machine to google drive using Google drive REST API.

## PROFESSIONAL EXPERIENCE

**Junior Design Engineer- Vaata Infra Limited**

India ( June 2014 - April 2015 )

- Developed an efficient Optimization methodology for load planning and packaging turbine components that increased the shipping of total turbine modules from 6 to 10 per shipping container.