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CHICAGO, ILLINOIS 60612
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Website - https://kshirsagarpratik.github.io/

PRATIK ANIL KSHIRSAGAR

SKILLS

Languages: JavaScript, Python, Java, C, Assembly(x86)

Frameworks: Apache Hadoop, Apache Spark, Express.js

Web: HTML, CSS, BootStrap, JavaScript, Node.js, jQuery

Databases: MongoDB, Oracle SQL, MySQL

Cloud: Amazon Web Services EMR, EC2, S3, Kubernetes, Docker

DevOps: Jenkins CI

Machine Learning: Scikit-Learn, Numpy, Pandas

Miscellaneous: Git, jUnit, Bitbucket, GitHub, GitLab

EDUCATION

University of Illinois at Chicago – Master of Science in Computer Science

AUGUST 2017 - PRESENT, CHICAGO

GPA - 3.6/4.0

Courses completed: Computer Algorithms, Cloud Computing, Applied Artificial Intelligence, Data Mining and Text Mining, Advanced Techniques in Software Engineering.

University of Mumbai – Bachelor of Computer Engineering

AUGUST 2013 - MAY 2017, INDIA

GPA - 8.35/10

AWARDS

Teaching Assistantship, Spring 2018 for Machine Organisation.

PROJECTS

YELPCAMP - INDEPENDENT PROJECT

A web application built on top of Node.js, Express.js and MongoDB along with Bootstrap. A Full-Stack application deployed on Heroku.

https://rocky-springs-25038.herokuapp.com/

GITHUB REPOSITORY ANALYZER - UIC

Analyzer for Git repositories written in Python that summarizes the nature and structure of open source Java projects. Used Scitools Understand to retrieve various dependencies among different components of the source code and other useful metrics of static code analysis.

https://github.com/kshirsagarpratik/GitHub-Repository-Analyzer

STOCK TRADE MARKET PREDICTION USING MONTE CARLO SIMULATIONS - UIC

Stock prediction on Apache Spark with Kubernetes cluster on Raspberry Pis using Java and publicly available historical financial data.

https://github.com/kshirsagarpratik/Stock-Prediction-using-Monte-Carlo-Simulations

JENKINS PIPELINES ANALYZER FOR OPEN SOURCE REPOSITORIES - UIC

Jenkinsfile Analyzer in Python that answers some research questions related to Jenkins pipelines. These questions address the empirical analysis of DevOps pipelines and derive conclusions on general approach to CI/CD services for Open Source projects.

https://github.com/kshirsagarpratik/Jenkinsfile-Analyzer

PRIVATE CLOUD CONSTRUCTION - UIC

Deployed a private cloud on an OctaPi cluster using Kubernetes for container orchestration and cluster management. Wrote Dockerfiles to create Docker images for Hadoop and Spark on ARM.

https://github.com/kshirsagarpratik/Private-Cloud-Construction

DEVOPS PIPELINE SIMULATION - UIC

Simulated a standard DevOps pipeline with features such as CI/CD, Test Coverage and Dependency analysis using technologies such as Jenkins, GitLab and Scitools Understand.

https://github.com/kshirsagarpratik/Jenkins-GitLab-CI-CD-Service

ASPECT BASED SENTIMENT CLASSIFICATION - UIC

Perform sentiment classification of sentences based on aspect terms contained. Scikit-Learn, Numpy, Pandas used for implementing SVM, Naive Bayes Classifier and Random Forests. Keras was used to implement recurrent neural network(RNN).

https://github.com/kshirsagarpratik/Aspect-Based-Sentiment-Classification

FREQUENT ITEMSET MINING - UIC

Implemented the Minimum Support Apriori algorithm for mining Frequent Itemsets, as part of the Data and Text Mining course.

https://github.com/kshirsagarpratik/Minimum-Support-Apriori-