ABHINAYA KRISHNA MANDEPUDI

#4564 Alta Terra Rd, Dublin, CA-94568
linkedin.com/in/abhinaya-krishna ⋄ axm163231@utdallas.edu ⋄ +1 469 720 2229

EDUCATION

University of Texas at Dallas GPA : 3.7/4.0 *Aug 2016 - May 2018*
Master of Science, Computer Science
National Institute of Technology Calicut GPA : 3.6/4.0 *Aug 2012 - May 2016*
Bachelor of Technology, Computer Science and Engineering

TECHNICAL SKILLS

Programming Languages:Java, Python, C, SQL.
Big Data Technologies: Spark; Kafka; Pig Latin;Basic Scala.
Web Technologies: Javascript, HTML, CSS, React, RestFul Web Services
Databases: MySQL, MongoDB
Relevant Coursework:Design and Analysis of Algorithms, Natural Language Processing, Machine Learning, Big Data Management and Analytics, Computer Vision, Statistics for Data Science,Database Design, Object Oriented Programming, Agile Development .

WORK EXPERIENCE

Machine Learning Intern Amadeus North America, Waltham, MA *Sep 2017 - Dec 2017*

- Worked on to improve efficiency of present flight inventory updating mechanism model which is used in the production to process millions of requests streaming traffic every day and deployed them through Jenkins using agile development approach.
- Developed internal tool to Interpret, visualize and reverse engineer existing machine learning model and to detect most recurring, anomaly patterns discovered from an ML model for a given airline by using Apache spark in python using PySpark API on a distributed computing platform.

ACADEMIC PROJECTS

Semantic Search Application { Python, Apache SOLR, NLTK, Wordnet}: *Jan 2017*
Implemented a semantic search application that will produce improved results using NLP features and techniques. A corpus of FAQs is taken where Keyword search index creation is done followed by Natural language query parsing and search. It is followed by implementing a deeper NLP pipeline to perform Semantic search index creation and then Natural language query parsing and search.

Mobile Store { React , Redux , Node}: *Spring 2017*
An e-commerce web application for an online mobile store. The website has all the features that are expected in a modern e-commerce website viz, User Registration, User Authentication, Cart and checkout functionality, maintaining the buyer history, Smart Search, Admin Privileges to maintain products(CRUD).

Sentiment Analysis using Spark Streaming {Scala, kafka, ElasticSearch }: *Apr 2017 May 2017*
Scripted a Scrapper program in Python to collect tweets in real-time with particular hash-tags and send tweets filtered on latitude and longitude to Apache Kafka API and performed Sentiment analysis. Timestamped output for each hash-tag and sent to Elasticsearch. Built Kibana dashboards to display visualizations in Elasticsearch indices.

Book Recommender System {Python, pySpark, Flask}: *Feb 2017 - Mar 2017*
Implemented a recommender system for a user using ALS Collaborative Filtering techniques and modified it as a web application using Flask. 48 million reviews meta-data from Amazon is taken as dataset.

Database Design: Manual database engine { Java }: *Fall 2016*
Created a manual Database engine that is similar to MySQL and optimized the run time of query processing by implementing the concepts of Indexing using efficient data structures.

E-commerce Web Application {PHP, Bootstrap, jQuery, MYSQL}: *Feb 2016 - Mar 2016*
A comprehensive web application for free and for sale portal that allows students to buy and sell goods within their community.

Custom Machine Learning Packages{Java}: *Feb 2017*
Programmed and developed Decision Tree (ID3), Neural Net (Back Propagation), Naive Bayes Classifier and customized them to increase the test accuracy on various datasets available online.

Web scale Question Answering system {Python, NLTK}: *June 2016 - July 2016*
Question classification is done using Support Vector Machine(Li-Roth based classifier) and then Google web search API is used for Answer Retrieval. Finally to extract named entities, used Stanford Named Entity Recognizer.