SUMIN REDDY

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EDUCATION

The University of Texas at Dallas, TX, USA **2019 MAY**
Master of science, Computer Science

National Institute of Engineering, Mysore, India **2017 MAY**
Bachelor of Engineering, Computer Science

SKILLS

- **Programming Languages:** Python, Java, C, C++, R.
- **Web Development:** HTML, PHP, CSS, XML, JavaScript, Ajax, J query, Bootstrap, React.js.
- **Tools & IDE:** Adobe Photo Shop, Android Studio, R studio, Eclipse, ATOM, Sublime, Apache Spark.
- **Database Skills:** SQL, PL/SQL, MySQL, PostgreSQL.
- **Operating System:** Windows, Unix, Linux, Mac OS.
- **MS-Office Packages:** Word, Excel, Power Point.
- **Other Software's:** Jira, Jenkins, Git(Version Control), GitHub Bamboo, Apache Maven.

RELEVANT COURSEWORK

Machine Learning, Analysis and Design of algorithms, Big Data Analysis, Database Design, Web Programming Languages, Cryptography Operating Systems, Multimedia Systems, Cloud Computing, Data Structures, Computer Networks, Statistics, Data Representations, Unix.

PROJECTS

- **Spooky author identification– kaggle (Aug 2017–Dec 2017)**: (Python, sci-kit learn, NLTK).In this project, I used Natural Language Processing basics such as Tokenization, stop word removal, Stemming, and lemmatization to correctly identify the text belonging to a random author.
- **Game development for phantom limb pain(Aug 2017–Dec 2017)**:(Unity, C#, Kinect).I have developed an interactive and fun game using Kinect and 'UNITY' to be used as a therapeutic mechanism for amputees who might be suffering from a missing limb pain known as the phantom limb pain it features a symmetrical and challenging game environment for the patient
- **Music Genre Classification(Nov 2016–April 2017**):(Python, sci-kit learn, NLTK). I have used machine learning to automatically classify a song to its genre automatically jazz, rock, pop, etc I have used a statistical pattern recognition classifier to be trained and evaluated from a data set so that it finds similar tunes by approximate pattern matching I have also used Mel-frequency cepstral coefficients to encode the power spectrum of sound.
- **Accounting Software(Aug 2015–March 2016**):(HTML, CSS, Bootstrap, Atom IDE, PHP).This is an open source user-friendly accounting software which consists of basic modules like Inventory/stock, Billing, sale and purchase orders etc .It works across all devices and platforms and it has a very simple and abstract design.
- **Personal Portfolio(September 2018**):Developed a Personal Portfolio to organize all my work and to connect to people it is made using React.js, Bootstrap, java script, HTML and CSS as front end, back end was developed using PHP and MySQL.
- **Auto-Parts Database(Aug 2017–Dec 2017**):(MySQL, PHP).I have developed a rudimentary Database system based on MySQL for an auto parts store to show data in different views. It supports all commands to modify data, it is also normalized to eliminate redundancy.
- **Tic-Tac-Toe(Jan 2016–May16)**:(Open-GL, X code, Unity).I have developed a simple game of 'TIC-TAC-TOE as part of the coursework using Open-GL library.
- **Spark Streaming-Big Data(March 2018):**(Spark, Scala, Hadoop, Spark Mlib, Spark SQL, Databricks).I have set up discrete streams from twitter data and transformed them by finding the average tweet length, popular URLs, hashtags and words. Analyzed stream data over a window of time. Connected spark streaming with scalable resources like Kafka and dumping into No-SQL databases like Cassandra. Ran SQL queries on streaming data, packages and deployed it on hadoop cluster and represented the data using Amazon Elastic Map Reduce.

ORGANIZATIONS and VOLUNTEERING

Student volunteer at Office of Student Volunteerism UT Dallas(2018), Venture Head at E-cell NIE Mysore(2015),IEEE(2013)