

Vinodh Reddy Velemineti

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Education

Rutgers University

MASTER OF SCIENCE IN COMPUTER SCIENCE - 3.83/4

New Brunswick, NJ

Sep 2017 - Exp. Dec 2018

- Data Mining, Machine Learning, Data Structures, Algorithms, Introduction to Artificial Intelligence

DAIICT (Dhirubhai Ambani Institute of ICT)

BACHELOR OF TECHNOLOGY IN INFORMATION & COMMUNICATION TECHNOLOGY - 3.74/4

Gandhinagar, India

July 2011 - May 2015

- Database Management Systems, Object-Oriented Design, Operating Systems, Graph Theory, Cryptography

Skills

Programming Languages

Python, C#, .Net, Java, C/C++, SQL, NoSQL, R

Web Technologies

Django, Flask, HTML, CSS, Bootstrap, Javascript, JQuery, AJAX, AngularJS, NodeJS, React

Big Data

Hadoop, HDFS, MapReduce, Spark, HBase, Hive, MongoDB, AWS (EC2,S3,RDS), ETL, SSIS, SSAS (OLAP)

Databases

MySQL, SQL Server, PostgreSQL, MonogDB, Elastic Search, Redis, Neo4j

Libraries & Tools

Docker, Jenkins, Git, MVC, Rest, Nginx, Pandas, NumPy, scikit-learn, NLTK, Spacy, IntelliJ, PyCharm

Experience

State Street

SOFTWARE ENGINEER INTERN

Princeton, NJ

June 2018 - Present

- Developed Community Detection algorithms to find groups of companies that are related together based on the Competitor and Supplier Chain relationships (Data Source: Factset) stored in our Knowledge Base (Neo4j – Graph Database).
- Implemented clustering algorithms to identify similar content news articles based on Word2Vec and Sentence Embeddings.

Kuliza Technologies

SENIOR FULL STACK DEVELOPER

Bangalore, India

May 2015 - Aug 2017

- Designed and developed highly scalable web applications and secure Rest API's using Python, Django, C#, HTML, CSS, Angular, JS, SQL.
- Worked on design and architecture patterns like MVC, MVT, Micro Services. Followed Agile and Scrum SDLC methodologies.
- Configured and hosted web applications on Amazon Web Services (AWS) using IIS, Nginx, Unicorn, Supervisor.

MAQ Software

SOFTWARE ENGINEER INTERN

Hyderabad, India

Dec 2014 - May 2015

- Designed and developed Business Intelligence (BI) solutions using C#, SSIS (ETL) and SSAS.
- Improved the performance of database/queries by 20 percent through techniques likes Indexing, Partitioning, Purging etc.

Academic Projects

Predicting Stock Price Momentum

DEEP LEARNING

New Brunswick, NJ

Oct 2017 - Dec 2017

- Developed a Neural Network that predicts the momentum of future stock prices of S&P 500 companies by discovering hidden patterns from past stock prices, calculating financial indicators, sentiment analysis of related financial news and their competitor's performance.

Product Rating Estimate from Tweets

DEEP LEARNING

New Brunswick, NJ

Oct 2017 - Dec 2017

- Based on keywords/hashtags related to a particular product/brand, we estimate its public sentiment index using the tweets available on those keywords using a deep learning model that classifies a tweet sentiment as positive/negative. Achieved a test accuracy of 83%.

Amazon Movie and TV Shows Recommendation System

BIG DATA AND DATA MINING

New Brunswick, NJ

Feb 2018 - May 2018

- Developed a web app that recommends Movies and TV Shows for each user based on his previous purchases and his ratings for each one. Built a hybrid model using content based and collaborative filtering techniques like KNN, Matrix Factorization. Evaluated the model performance using metrics like RMSE, Precision, Recall, F1-score, NDCG.

Large Scale Recommendation Systems

BIG DATA

New Brunswick, NJ

Jan 2018 - Feb 2018

- Implemented recommendation algorithms for Frequent Item Sets Mining (Apriori, PCY, Multi Hashing) and Social Media Friend Suggestions that are performance efficient on huge datasets using Map Reduce framework.

Carpooling Website (Ride Buddy)

WEB DEVELOPMENT

Gandhinagar, India

Jan 2014 - May 2014

- Designed a web portal where a commuter can post about a vacancy in one's car or simply reserve a trip with other commuters.

Activities & Awards

- Worked as Teaching Assistant for Big Data Analytics and Database Systems courses of 40 students each (Jan 2018 - May 2018)
- Was awarded "Za-Bond" for significant contributions and consistent performance in the company (Kuliza) throughout the year – 2016
- Secured a rank in the top 1% out of the 1.2 million students who appeared for All India Engineering Entrance Examination (AIEEE)