

# Vishnu Kommineni

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## EDUCATION

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**Master of Science in Computer Science**

The University of Texas at Dallas

January 2022 - May 2023

Richardson, TX

**Bachelor of Science in Computer Science (Honors)**

The University of Texas at Dallas

August 2019 - December 2021

Richardson, TX

## SKILLS AND CERTIFICATIONS

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**Languages:** Java, C, C++, C#, Python, JavaScript, SQL, R

**Technologies:** Apache Spark, Apache Kafka, Node.js, React

**Coursework:** Data Structures/Algorithms, Machine Learning, Artificial Intelligence, Big Data Management, Databases, Natural Language Processing, Operating Systems, Data and Application Security, Computer Architecture, Human Computer Interaction, Data Representation

## WORK EXPERIENCE

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**MyElth**

*Data Science Intern*

May 2021 - August 2022

- Implemented a **ranking algorithm** to rank medical providers based on selected criteria.
- Performed **Feature Extraction** to create new features for the data set.
- Analyzed the data to select specific attributes that provided best results for ranking.
- Utilized **SQL** and **Python** to process and extract specific data from a data set of over **500 million** data points.

## RESEARCH

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**Research Assistant, UTD**

*IOT Data Encryption*

July 2019 - December 2020

- Developed a web application to retrieve data from IOT devices and store in **MongoDB**.
- Analyzed structure of data for a small amount of IOT devices to develop an algorithm to extract required data from the devices.
- Created a visualization of the data in the web application using **HTML, Node.js and JavaScript**.
- Web application was used to visualize data that was to be encrypted by Intel SGX.

## PROJECTS

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**McKesson Patient Preference**

2021

- Evaluated data to find patient preference for various attributes of a drug.
- Used **Natural Language Processing** and **NLTK** to process and clean large data sets.
- Performed **Feature Extraction** to create new features to be used in the ML models.
- Implemented **Logistic Regression** and **Naïve Bayes** model to predict preference for a drug with an accuracy of **80% and 63%** respectively.

**Twitter Sentiment Analysis**

2021

- Developed an algorithm that was capable of gathering, processing and analyzing the sentiment of tweets related to a specific topic.
- Streamed live Twitter data using **Apache Spark** and **Apache Kafka**.
- Processed the data and performed Sentiment analysis using **Python** with **NLTK**.
- Streamlined the algorithm to store the data in **Elasticsearch** and Visualized the data in **Kibana**.