LIKHITHA CHANDRA

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EDUCATION

Master of Science, Computer Science, Colorado State University, Fort Collins　　　　　　Aug 2019 - Aug 2021
Courses: Analysis of Algorithms, Big Data, Database Management Systems, Design of data and analysis
Bachelor of Technology, VNRVJIET　　　　　　　　　　　　　　　　　　　　　　　　Aug 2015 - Apr 2019
Courses: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems

TECHNICAL SKILLS

Programming Languages	Python, Java, C, JavaScript, R, Go
Technologies / Frameworks	HTML, CSS, React, Angular, Spring, Hadoop
Databases	MySQL, MongoDB, SQLite
Tools	Git, Tableau, PowerBI, Excel

EXPERIENCE

Graduate Research Assistant, METEC, Colorado State University, Fort Collins　　　　Aug 2020 -Present
- Involved in R&D, design, and development of an application using Discrete-Event Simulator for calculating methane emissions and detecting leak patterns in the production of natural gas.
- Built a single-click application by integrating Python and Shell APIs to identify sensitive data and outliers across databases, which reduced manual effort by over 60%.
- Developed user interfaces with visualizations of emission data using Angular and D3.js to enable Energy experts to make decisions.
  Key Technologies: Python, Dask, D3.js, Angular, SQL, Excel

Software Development Student Researcher, Colorado State University, Fort Collins　　　May 2020 - Aug 2020
- Wrote Python scripts to extract information about gas emissions activities from natural gas processing stations and ensured that these python scripts ran at regular intervals by scheduling tasks using cron jobs in Linux.
- Worked in an agile environment and version control through Git and SVN.
- Performed bug-fixing as well as functionality addition tasks.
  Key Technologies: Python, SQL, Excel, Git

Data Analyst Intern, Merilytics Inc, Hyderabad, India　　　　　　　　　　　　　　Dec 2018 - May 2019
- Performed web scraping using Python's beautiful soup package to extract patient visit data from client websites and forecasted future patient visits.
- Built Tableau dashboards and performed exploratory data analysis using Python and Excel on equipment purchase from vendor's data, enabling the client to get the best deals on the equipment.
  Key Technologies: Python, MySQL, Tableau, PowerBI, Excel

ACADEMIC PROJECTS

Top Hashtags and Sentiment Analysis on Twitter data
- Developed an algorithm to get live streaming data from Twitter API using Apache Storm and Zookeeper. Implemented a Lossy count algorithm to get the top trending hashtags and NLP algorithms to do the sentiment analysis.
  Key Technologies: Java, Apache Storm, Hadoop

Car Tracker
- Developed a web application for rental companies, which continuously monitors the status of different cars (like Location, fuel, speed, engine rpm, etc.). It generates alerts based on the readings and plots the vehicle's history of a specific signal over a user-selected time range.
  Key Technologies: JavaScript, React, MySQL, JSON, GitHub, Restful API, Spring

Recommendation System using Neural Network
- Built a movie recommendation engine powered by optimized Neural Networks based on TF-IDF Vectorization and Collaborative Filtering. Increased the performance of algorithms using hyper-parameter tuning.
- Increased the performance by 60 percent of the model using clustered PyTorch distributed framework.
  Key Technologies: Python, PyTorch, Flask

Stocks Application
- Developed a full-stack web application to handle stock transactions such as buying and selling, scheduling transactions, seeing transaction history, and keeping track of stock prices over time periods, as well as browsing stock profiles.
- Processed user queries from the front-end using REST API endpoints created with Spring Boot and MongoDB.
- Built a second App Server with Node.js and MySQL to create stock data and provide it via REST API endpoints, as well as integrating the TLS/SSL protocol for secure HTTPS communications between the servers and clients.
  Key Technologies: Java, REST APIs, Spring Boot, MongoDB, MySQL, TLS/SSL, Node.js