ROHITH MUSUNURI

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PROFILE

Motivated Full Stack Developer with a strong foundation in Python and a passion for building scalable web applications. Recently graduated with a degree in Computer Science, with coursework focused on web development, databases, and software engineering principles. Proficient in Python, JavaScript, HTML, CSS, and SQL, with a solid understanding of front-end and back-end technologies. During my studies, I gained hands-on experience working on various web projects, where I developed dynamic and responsive user interfaces using modern front-end frameworks such as Flask and Django. I am well-versed in designing and implementing RESTful APIs, handling data storage and retrieval, and optimizing database performance.

EDUCATION

Master of Science: Computer Science, University at Buffalo NY, The State University of New York, Feb 2023
Course Work: Machine Learning, Reinforcement Learning, Pattern recognition, Data Intensive Computing, Deep Learning
Bachelor of Engineering: Electronics and Communication, **VIT**, Vellore, India, June 2020
Course Work: Data Structures and Algorithms, Computer Communications, Computer Architecture

SKILLS & TOOLS

Programming languages: C#, core java, Python

ML/AI: Pytorch, Scikit-learn, Keras, TensorFlow, Big Data, Pyspark, Hadoop, MongoDB, Matplotlib.

Web Technologies: HTML, CSS, JavaScript, Angular, Reactjs, Streamlit, Flask.

Tools: MySQL, SQLite, Latex, Docker, VS code, Intellij Idea, Eclipse.

PROJECTS

Robust Learning System: Python, Pyspark, TensorFlow, Keras, Numpy, pandas
- Developed and hyper-tuned ML model to detect handwritten image using Machine Learning methods (Logistic Regression, SVM, and K nearest neighbors) with 98 percent accuracy better than baseline accuracy of 96 percent.
- Generated a DL model on a highly imbalanced CIFAR dataset using LDAM and Symmetric CrossEntropy and balancing dataset using different technique.
- Built model by balancing dataset and adding images with symmetric and asymmetric label noise (label noise ratio: 0.4).

Prediction of sales and deploying a web application: Python, Streamlit, Flask, HTML
- Created an end-to-end model to predict sales of products from black Friday dataset.
- Performed Data analysis and feature engineering to extract most significant features.
- Applied ML models using Pyspark to develop a model with an accuracy of 94.
- Deployed ML models in Streamlit for getting best model along with visualizations.

Analysis of ride fares of Lyft and Uber in Major Cities: SQL, PostgreSQL
- Generated database for easy accessibility for users from a 2 million record dataset.
- Created queries to improvise run time for database by 20 percent.

Text Chat Application: VS Code, C++,
- Developed the client and server components of a text chat application for message exchange among remote hosts one server and multiple clients using TCP sockets.
- Developed a P2P functionality between clients with no involvement of server with ability to send binary and text files using TCP connection between two clients.