SREEHARI THOTA

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EDUCATION

Saint Louis University   2022 - 2024
Master of Computer Science, Cumulative GPA: 3.84/4
Subjects: Machine Learning, Principles of Software Development, Algorithms, Database, Computer Networks, Artificial Intelligence, Natural Language Processing.

Institute of Aeronautical Engineering   2017 – 2021

SKILLS

Technologies	Web development, MS Excel, MS PowerPoint.
Languages	Python, Shell Script, C++, Java
Databases	SQL, MSSQL.
Cloud	AWS
Tools/frameworks	Git, React js, JIRA, CircleCI, Jenkins, Docker, Linux, Tableau, Kubernetes.
Soft Skills	Communication and Team Management, Time Management, Critical Thinking.

CERTIFICATIONS

1. Introduction to Cloud Computing- GR6UHN76ZVAY
Education provider: **IBM**
Skills Gained: Comprehensive exploration of cloud computing, major cloud platforms (AWS, Azure, Google Cloud).
2. Introduction to DevOps- CKRLBSV6C46F
Education provider: **IBM**
Skills Gained: Detailed study of DevOps principles, continuous integration, continuous delivery, and essential software engineering practices.
3. AWS Cloud Technical Essentials – LYRPL2BPQURX
Education provider: **Amazon Web Services**
Skills Gained: In-depth overview of AWS services, security, databases, and storage solutions, emphasizing practical applications and management.

PROJECT EXPERIENCE

Clinical Trials Office Database developer - **Team Lead**   **2023**

SLU School of Medicine Clinical Trials Office
Technologies Used: Reactjs, MSSQL, Flask, Jupyter Notebook.

- Developed and implemented a robust Clinical Trials Data Tracking System, migrating critical information from Google Sheets to an MS SQL Server database using Jupyter Notebook for data accuracy.
- Utilized React for an intuitive front-end, Flask for a resilient backend, and MS SQL Server for efficient database management, implementing RESTful APIs for real-time data updates and dynamic reporting.
- Enhanced user experience by designing an interactive front-end in React, facilitating easy tracking and information updates.

PUBLICATIONS

Naïve Bayes and Random Forest for Crop Yield Prediction - Link   **April 2024**

Discover Agriculture

Authors : Sreehari Thota, Naga Prasad Kondaboina, Vineetha Muktineni, Deepthi Annem, Abhi Stephen Rokkam, Mohammad Hossein Amini, Mohammad Amir Salari, Payam Norouzzadeh, Eli Snir, Abbas Maazallahi, Dr. Bahareh Rahmani

Under the guidance of **Dr. Bahareh Rahmani**, we present a detailed analysis of crop yield prediction in India from 1997 to 2020. This study utilizes machine learning techniques such as Linear Regression, Decision Tree, KNN, Naïve Bayes, K-Mean Clustering, and Random Forest, focusing on various crops and key environmental factors. The research highlights the effectiveness of Naïve Bayes and Random Forest models in enhancing the accuracy and reliability of agricultural yield predictions.

PROJECTS

Cloud-native Monitoring Application with AWS EKS & Python Flask   **2024**

Developed a cloud-native monitoring app on AWS EKS using Python Flask, providing real-time visualization of CPU, RAM, disk, and GPU metrics, showcasing proficiency in cloud-native development, containerization, and backend/frontend integration.
Skills Used: HTML, CSS, JavaScript, Python Flask framework, AWS–EKS, AWS-CLI, Docker.

MECHAZONE - Automotive Parts E-commerce Platform   **2023**

Designed and developed MECHAZONE, a comprehensive e-commerce platform catering to automotive enthusiasts, providing a seamless experience for users to discover, purchase, and repair automobile parts. Leveraging a tech stack that includes React, MSSQL, and Flask, MECHAZONE simplifies the process of finding and acquiring auto parts, even for users with limited technical knowledge.
Skills Used: Reactjs, MSSQL, Flask, Jira, Circle CI, GitHub, DOCKER.

SQL Data Exploration and Visualization   **2023**

The provided text describes a process for analyzing a constantly changing COVID-19 dataset. It involves using SQL queries to clean and analyze the data, creating visualizations for easier understanding, and employing statistical methods to identify trends and support informed decision-making about the pandemic.

<u>Skills Used:</u> **MS Excel, MSSQL, Tableau**

Predicting the Risk of Heart Disease using Artificial Intelligence.   **2023**

I conducted research to explore using Artificial Intelligence and machine learning algorithms to predict the risk of heart disease. The study discussed various algorithms including logistic regression, decision trees, neural networks, and KNN.

<u>Skills Used</u>: **Python, Jupyter notebook, Neural Networks, Decision Tree, KNN, Logistic Regression.**

WaterBot- Water Quality Prediction.   **2023**

WaterBot - Water Quality Monitoring" is a data analytics and IoT project that employs advanced techniques such as Linear Regression, CNN, RNN, and LSTM. Data Visualization is done in the Tableau Website with the data set.

<u>Skills Used</u>: **Python, Jupyter notebook, CNN, RNN and LSTM.**

Web application for BWorks community service program   **2023**

Developed a robust online application for BWorks, streamlining provider registration and Email automation. This user-friendly system improved operational efficiency and transparency. This empowered data-driven decisions for community service programs.

<u>Skills Used</u>: **Angular Framework, Flask, MSSQL.**

Wordle Game using JAVA   **2023**

Developed a captivating and interactive WORDLE game using Java, implementing the Model-View-Controller (MVC) architectural pattern. The game is designed to challenge players in finding hidden words through a combination of guessing and strategic thinking.

<u>Skills Used</u>: **Java, GitLab, MVC approach, Gradle.**

Personal Portfolio Website   **2024**

Developed sreeharithota.com[Sreehari Thota], a personal portfolio website showcasing my projects and technical skills through a dynamic and user-friendly interface. This React application not only highlights my work but also demonstrates my proficiency in modern web development practices.

<u>Skills Used</u>: **Reactjs, CSS, HTML, JavaScript, GitHub, Vercel.**