102 Calhoun Street, Unit 221
Clemson, SC - 29631
Portfolio

Adithya Ravi

(864) 207-2541
LinkedIn Profile
adithyaravi0312@gmail.com
GitHub Profile

Summary

As a data enthusiast, I aim to leverage my expertise in data analytics and database management, utilizing my proficiency in SQL queries to provide valuable insights and solutions. With a strong command of programming languages, data analysis tools, and data visualization techniques, I am dedicated to delivering accurate and actionable information for informed decision-making. My passion for data-driven problem-solving and commitment to continuous learning enables me to meet the evolving needs of organizations and drive data-centric strategies for success.

Experience

Graduate Teaching Assistant, Clemson University **Aug 2023 - Present**

- Manage equipment rentals for Digital Imaging course, maintaining accurate records of equipment availability, issuance, and returns to ensure smooth operations.
- Handle a comprehensive tracking system to monitor the lending and return of equipment, resulting in efficient equipment management and a reduction in loss by 20%.
- Collaborate with the professor to improve the equipment rental process, leading to a 15% increase in student satisfaction with the program.

Web Developer Intern, CFT Ventures Private Limited, India **Mar 2020 – Sep 2020**

- Developed front-end web applications using WordPress (HTML, CSS, JavaScript) to create responsive and visually appealing web pages.
- Designed and implemented web components using existing ASTRA designs templates, working closely with the design team to ensure that the final product meets the required specifications and improve website readability using the AdvancedCSSEditor plugin, making it easier for users to navigate and find information.
- Maintained a document that guides the website's architecture, detailing the various components of the website and their interactions, which reduced the complexities of the website by 20%, making it easier to maintain and update.

Education

Clemson University, Clemson, SC **Jan 2022 - Dec 2023 (Expected)**

- **Master of Science in Computer Science, GPA: 3.73/4**
  - **Graduate Coursework:**
    Database Management System, Machine Learning: Implementation and Evaluation, Statistical Methods 1, Data Analysis, Software Design, Cloud Computing Architecture, Distributed Denial of Services, Applied Data Science, Computing and Online Relationship, Security in Emerging Computing and Networking Systems

Anna University, Chennai, India **Aug 2017 – May 2021**

- **Bachelor of Engineering in Computer Science and Engineering, GPA: 3.23/4 (8.08/10)**

Skills

- **Programming Languages:** Python, SQL, R, Java
- **Data Analysis and Visualization:** Pandas, NumPy, SciPy, Matplotlib, Seaborn, Power BI, Tableau
- **Machine Learning:** Scikit-learn, TensorFlow, Keras
- **Database Systems:** MySQL, Microsoft SQL Server
- **Tools and Environments:** Jupyter Notebook, Anaconda, Git, Linux, SQL Server Management Studio

Projects

- **Rating predictions from reviews given to products in online markets:**
  - Created four models to categorize reviews on popular e-commerce websites according to whether they are seller-related, marketplace-related, shipment-related, or product-related and then predict their rating. Achieved an overall accuracy of 40.99% with the SVM model without splitting having the highest accuracy.
- **Heart attack prediction using Multi-Layer Perceptron model:**
  - Developed a robust multi-layer perceptron model with 6 hidden layers to predict heart attacks. Implemented data preprocessing techniques such as normalization and feature scaling, resulting in an accuracy of 88% on the test dataset.
- **Real time mask detection:**
  - The model was trained using transfer learning on the MobileNet architecture, achieving an approximate accuracy of 80%. It is then applied to real-time video streams, providing bounding boxes to indicate the mask status.
- **Online Aid For Detecting Brain Tumor And Tuberculosis Using Deep Learning:**
  - Developed and deployed a web application utilizing state-of-the-art convolutional neural networks, ResNet and MobileNetV2, to accurately detect brain tumors and tuberculosis from X-ray and MRI data with up to 99% accuracy and thus reduced the need for invasive testing procedures, resulting in a 50% decrease in unnecessary medical interventions.