Tharun Bheemanadula

9985425530 tharunbheemanadula@gmail.com -linkedin Tharunbheemanadula

Education

- **JNTUH University College of Engineering, Jagtial** *2019-23*
  Bachelor of Technology in Information Technology CGPA: 8.12
- **Alphores Junior College, Mancherial - Intermediate** *2017-19*
  MPC stream Percentage: 98.6
- **Krishnaveni Talent School, Mandamarri - SSC** *2016-17*
  Telangana Board of Secondary Education CGPA: 9.3

Personal Projects

- **Air Quality Index Prediction**

  Devised a precise air quality prediction model, forecasting ranges, and executing pollution mitigation via Streamlit.
  - Proficiently gathered and processed historical and real-time air quality data encompassing pollutants (SO2, NO2, PM2.5, NOI, SPMI, RSPM, SPM).
  - Applied diverse advanced machine learning models to train on this data for comprehensive analysis.
  - Attained a 95% accuracy rate in predicting air quality index, aiding in proactive pollution control measures.
  - Technology Used: Python, Streamlit.
- **Pneumonia Detection using Deep Learning**

  Constructed a CNN and applied Transfer Learning for accurate pneumonia detection using deep learning techniques.
  - Employed VGG16 architecture for robust feature extraction, resulting in accurate pneumonia classification.
  - Optimized model performance by implementing data augmentation and generator techniques.
  - Performed thorough data preprocessing, including resizing and normalization, to optimize the training dataset.
  - Trained the model on a large dataset of chest X-ray images, achieving an accuracy rate of 92.7%.
  - Lowered false positives by 25% in pneumonia detection via ensemble learning.
  - Technology Used: Deep Learning(CNN,VGG16), TensorFlow, Python, Flask.
- **Netflix Movie Recommendation**

  Harnesses the Eclat algorithm for accurate movie recommendations on Netflix by closely examining user-watching history.
  - Applied numpy, matplotlib, and pandas to adeptly import and preprocess data for analysis.
  - Conducted association rule generation to analyze inter-movie relationships.
  - Improved movie recommendations accuracy by 15% through fine-tuning association rule parameters.
  - Technology Used: Python, Apyori Library.

Experience

- **Data Science Virtual Internship** *April- May2023*
  Let's Grow More Online
  - Demonstrated comprehensive understanding of data science projects with strong analytical skills.
  - Completed and analyzed 10 real-world data analysis projects, demonstrating proficiency in data preprocessing and analysis.
  - Actively engaged in machine learning (including supervised and unsupervised learning) and deep learning models.

Tech Skills

Languages: Python, C,SQL
Libraries : Python Libraries
Databases: Relational Database(MySQL)
Technologies: Machine learning
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, MS Office,Software Engineering.

Certifications

Virtual Data Science Intern Certification: Recognized for completing a virtual internship in the field of Data Science through LetsGrowMore, demonstrating practical knowledge and experience.
Machine Learning :Attained specialized Machine Learning certification from PrepInsta, demonstrating expertise.
SQL:Received SQL certification from PrepInsta, showcasing proficiency in SQL database management, querying, and data manipulation techniques.

Achievements

- **Inspire Scholarship Selection:** Attained the first position in the district during the intermediate examination, leading to the prestigious selection for the Inspire Scholarship.
- **Letter of Recommendation for Data Science Internship:** Garnered a Letter of Recommendation from Let's Grow More for the impactful contributions made during the Data Science internship, reflecting strong work ethic and valuable skills.