C. TEJESVAR

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PROFESSIONAL SUMMARY

Detail-oriented and analytical individual with a B.Sc in Computer Science and hands-on experience in data science and machine learning. Proficient in Python, machine learning frameworks, and data analysis, with demonstrated ability in building predictive models and processing large datasets. Passionate about leveraging data to solve complex problems and drive decision-making in data-intensive environments. Eager to contribute technical expertise and a collaborative spirit to a dynamic data engineering team.

TECHNICAL STACK

- **Programming Languages:** Python, HTML (Basic)
- **Data Analysis Tools:** Microsoft Excel, pandas, numpy, Power BI, SciPy
- **Machine Learning:**
    - **Algorithms:** Linear Regression, Logistic Regression, Decision Tree Regressor, Decision Tree Classifier, Gradient Boosting Regressor, Random Forest Regressor, Support Vector Regression (SVR)
    - **Techniques:** Supervised Learning, Unsupervised Learning, Singular Value Decomposition (SVD)
- **Deep Learning:**
    - **Frameworks:** TensorFlow, Keras
    - **Techniques:** Convolutional Neural Networks (CNNs), Neural Networks
- **Data Visualization:** Matplotlib, Seaborn, Power BI
- **Tools & Technologies:** Microsoft Office 365 (Excel, Word, PowerPoint), MS SQL Server, Google Colab, scikit-learn
- **Statistics:** Descriptive Statistics, Inferential Statistics, Hypothesis Testing, Regression Analysis

PROFESSIONAL EXPERIENCE

Data Science Intern
Shiash Info Solutions, Chennai
July 2024 – September 2024

- Collaborated on data science projects involving data cleaning, preprocessing, and machine learning model development.
- Utilized Python, pandas, and numpy for data manipulation and statistical analysis.
- Developed predictive models and visualized data trends to support decision-making processes.

LEAP Program Intern
Titan Company, Chennai
January 2024 - March 2024

- Conducted data analysis and reporting for the "Analytics 360" project using MS Excel.
- Designed and presented data-driven insights through comprehensive reports and presentations.

PROJECTS

Predicting CO2 Emissions in Vehicles Using Multiple Regression Techniques

- **Objective:** Developed and evaluated predictive models to estimate CO2 emissions for vehicles based on various features such as engine size, fuel consumption, and transmission type.
- **Data Exploration and Visualization:** Conducted EDA using histograms, violin plots, box plots, and joint plots.
- **Data Cleaning and Preprocessing:** Managed missing values, skewed data, and outliers. Encoded categorical variables using one-hot encoding.
- **Model Building and Evaluation:** Compared Linear Regression, Gradient Boosting Regressor, Support Vector Regressor, Decision Tree Regressor, and Random Forest Regressor. Evaluated performance using R^2 score and Mean Squared Error (MSE).
- **Model Insights and Threshold Analysis:** Developed a function to identify vehicles exceeding a CO2 emission threshold.
- **Tools Used:** Python, pandas, numpy, scikit-learn, seaborn, matplotlib, Gradient Boosting Regressor, Support Vector Regressor, Decision Tree Regressor, Random Forest Regressor.

Image Recognition Using CIFAR-10 Dataset

- **Objective:** Developed a convolutional neural network (CNN) model to classify images from the CIFAR-10 dataset into 10 different classes, including airplanes, automobiles, birds, cats, deer, dogs, frogs, horses, ships, and trucks.
- **Data Preprocessing:** Normalized pixel values and performed data augmentation to enhance model robustness.
- **Model Architecture:** Built a CNN model with multiple convolutional and pooling layers, followed by dense layers for classification.
- **Training and Evaluation:** Trained the model using TensorFlow and Keras, achieving a high accuracy on the test set, while employing techniques such as dropout for regularization.
- **Tools Used:** Python, TensorFlow, Keras, Matplotlib, Seaborn.

See Additional Projects on : https://github.com/Tejesvar

EDUCATION

- **B.Sc in Computer Science**
  Patrician College of Arts and Science, Chennai
  August 2021 – May 2024
  CGPA: 7.32

CERTIFICATIONS

- **Intern Completion Certificate in Data Science**
  Shiash Info Solutions, Chennai
  July 2024 - September 2024
- **Certificate Course in Hardware and Networking**
  Tamil Nadu Advanced Technical Training Institute, Chennai
  April 8, 2022 - April 20, 2022
- **Course on Data Analytics Using Tableau**
  Teenofes Tech Solutions Pvt. Ltd.
  Completed on April 22, 2024
