Praveen Narra

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ABOUT ME

Aspiring Machine Learning engineer with a strong foundation in mathematics, data science, and programming. Eager to contribute to the field of AI by applying machine learning algorithms and techniques to large datasets, enabling businesses to make data-driven decisions. Looking for a challenging role where I can continue to learn and grow as part of a forward-thinking organization.

SKILLS

- **PROGRAMMING**
  Proficient: Python • NumPy • Pandas • Machine Learning TensorFlow • Matplotlib • Seaborn
  Experienced: Machine Learning • Data Analysis • Deep Learning Familiar: SQL • Scikit Learn • OpenCV
- TOOLS/PLATFORMS GitHub • Jupyter Notebook • Google Colab

Education

SRI VENKATESWARA COLLEGE OF ENGINEERING, BACHELOR'S IN COMPUTER SCIENCE — Jan 2020 – May 2024

- GPA: 7.36/10
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

Projects

HOUSE PRICE DETECTION — github.com/Narra552244/HPP

- Developed a machine learning model to predict house prices using a comprehensive real estate dataset with features like property size, location, number of rooms, and available amenities.
- Preprocessed the dataset by handling missing values through imputation, encoding categorical variables, and scaling numerical features for consistency.
- Experimented with various machine learning algorithms, including Linear Regression, Decision Trees, and Random Forests, to build predictive models.
- Conducted hyperparameter tuning using techniques like Grid Search and Random Search to optimize the model's parameters.
- Achieved a 10 percent improvement in the R^2 score through optimization, enhancing the model's predictive accuracy and reliability.
- Evaluated model performance using metrics such as Mean Absolute Error (MAE) and Mean Squared Error (MSE) for robust validation.
- Visualized insights with Matplotlib, including feature importance rankings and actual vs. predicted price comparisons, to interpret model effectiveness.
- Documented key findings and organized the workflow in a Jupyter Notebook for clarity and reproducibility.
- Tools Used: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Jupyter Notebook

IMAGE RECOGNITION SYSTEM — github.com/deeplearning/repo

- Built an image classification model using Convolutional Neural Networks (CNNs) to classify images from the MNIST dataset into predefined categories.
- Preprocessed images by normalizing pixel values, performing data augmentation (rotation, zoom, flips), and splitting the dataset into training, validation, and test sets.
- Designed a CNN architecture with layers for feature extraction, dimensionality reduction, and classification.

- Convolutional layers for feature extraction.
- MaxPooling layers for dimensionality reduction.
- Fully Connected layers for classification.
- Optimized the CNN using the Adam optimizer and fine-tuned hyperparameters such as learning rate and number of layers for improved performance.
- Evaluated model performance on the test set using metrics like accuracy and loss to ensure reliability.
- Visualized training and validation accuracy and loss curves to monitor model progress during training.
- Tools Used: Python, TensorFlow, Keras, OpenCV, NumPy, Matplotlib.

Certifications

Udemy Professional, Machine Learning A-Z™: AI,Python and R+

Udemy Professional, Python for Data Science and ML Bootcamp