Neelesh Gadi

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Projects

Rice Leaf Disease Classification using Deep Learning   **Feb 2025**

- Implemented a custom image classification pipeline using TensorFlow and Keras on a dataset of rice leaf images.
- Leveraged MobileNetV2 as a base model for transfer learning, reducing training time while maintaining high accuracy.
- Performed data augmentation (rotation, zoom, flips, shift) using ImageDataGenerator to improve model generalization.
- Achieved robust performance metrics including accuracy and confusion matrix visualizations.
- Created a confusion matrix heatmap and classification report for evaluating model precision, recall, and F1-score.
- Visualized sample predictions with predicted vs actual labels to validate model performance.
- Trained and deployed the model using Google Colab with Google Drive integration for easy storage and reproducibility.

Lead Scoring System using Machine Learning   **Mar 2025**

- Preprocessed a synthetic lead dataset with missing value handling, label encoding, and feature scaling.
- Trained a Random Forest Classifier, achieving a high ROC-AUC score and strong classification performance.
- Engineered a custom lead scoring algorithm combining model output probabilities and weighted feature contributions.
- Extracted and normalized feature importances to interpret key drivers of lead conversion.
- Categorized leads into High, Medium, Low quality segments for actionable marketing strategies.
- Saved model, encoder, scaler using joblib and exported results for further analysis.
- Bonus: Developed a confusion matrix and accuracy report for performance evaluation.

Certificates

C/C++ Competitive Coding Problem Solving: Beginner to Master   **July 2024**
LPU

Cloud Computing   **Oct 2024**
NPTEL

Complete Web Development Bootcamp   **Mar 2023**
Udemy

Technical Skills

Languages: C++, Java, Python

Frameworks: Tensorflow, Keras, scikit_learn

Data Management: MySQL, PostgreSQL

Version Control: Git, GitHub

Achievements

- Top 20 out of 100+ teams in Dr. Code Hackathon, highlighting teamwork and problem-solving skills.   **Mar 2025**

- Maintained 1700+ rating on Chess.com, reflecting strong strategic and analytical thinking.   **Feb 2025**

Education

Lovely Professional University Punjab   **2022 – Present**
Computer Science and Engineering — CGPA: 7.4   *Phagwara, Punjab*

Trividya Junior College   **2019 – 2021**
12th with Science — Percentage: 72.60%   *Hyderabad, Telangana*

Kendriya Vidyalaya Picket   **2018– 2019**
10th with Science — Percentage: 87%   *Hyderabad, Telangana*