Joydip Das

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GitHub

PERSONAL PROJECTS

FlowerResNet Image Classifier

- Developed a GitHub project demonstrating flower image classification using a custom ResNet model implemented in PyTorch.
- Utilized the Flowers-299 dataset with 299 flower classes for training and evaluation.
- Implemented data preprocessing, model training with SGD optimizer, validation, and model checkpointing for reusability.
- Deployed the application using Streamlit, allowing for easy access and usage.
- Achieved Training Loss: 0.4499 and Validation Loss: 0.9267, showcasing model efficiency and effectiveness.
- Attained impressive accuracy rates, with Train Accuracy: 87.84% and Validation Accuracy: 75.30%.

Plant Diseases Classifier

- Developed a GitHub project utilizing a custom ResNet model in PyTorch for plant disease classification.
- Processed a dataset of 70,295 ROB images containing healthy and diseased crop leaves to achieve high accuracy.
- Demonstrated effectiveness in plant disease detection through accurate image classification techniques.

A Transformer-Based Approach for Depression Classification(Using BERT)

- Leveraged BERT transformers by Hugging Face.
- Identified 5 distinct depression classes.
- Training Loss: 0.1701, Accuracy: 94.59%
- Validation Loss: 0.3652, Accuracy: 85.99%

PandasChoice Django RestAPI(E-commerce)

- Created a RESTful API for an e-commerce platform, "PandasChoice," focusing on bamboo crafts and bonsai products.
- Offers a unique assortment of sustainable items that showcase the beauty of nature, particularly bamboo-inspired crafts and the art of bonsai cultivation.
- Explore and shop now to experience the enchantment of eco-friendly craftsmanship and bonsai artistry.   %.+1 Xtecommerce #bambucrafts ttbonsai Ususustainability

SKILLS

- NumPy
- Matplotlib
- Pandas
- Scikit-learn
- django, django-REST framework
- Streamlit
- MySQL, SQLite
- Machine learning
- PyTorch
- PyCharm,3upyter Notebook, Google Colab
- Git, GitHub
- Bash Command Line
- Linux

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering

ICFAI University, Tripura

- In *Progress, Third Year*

CERTIFICATIONS

- DATA DRIVEN ASTRONOMY(by Positron Foundation CITTIC, Cochin University of Science and Technology)
- Machine learning with python(T1T- Tripura Institute of Technology)
- Python bootcamp(100 Days of Code: The Complete Python Pro Bootcamp by Angela Yu)