SUBRATA MONDAL

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EXPERIENCE

Realtime Pets (Cat and Dog) Breed Detector | Independent Project

- Developed a real-time pet breed detector using FastAi and deployed it to production, helping pet owners identify their furry friends with ease.
- Achieved 93.78% validation accuracy on a dataset of 37 cat and dog breeds, with an average inference time of 100ms.
- Deployed the model on Streamlit to make it accessible to users with a variety of devices and operating systems.
- Project Link: https://subrata-mondal-cat-and-dog-breed-detector.streamlit.app/

Realtime Birds 525 Species Detector | Independent Project

- Developed a real-time bird species detector using FastAi and deployed it to production, helping bird enthusiasts and researchers identify birds with ease.
- Achieved 98.59% validation accuracy on a dataset of 525 bird species, with an average inference time of 100ms.
- Deployed the model on Streamlit to make it accessible to users with a variety of devices and operating systems.
- Project Link: Birds 525 Species Detector - a Hugging Face Space by iamsubrata

Analytics Olympiad 2023 Hackathon | Loan Default Binary Classification

- Secured a top 12 leaderboard position out of 935 participants in a hackathon for loan default binary classification.
- Trained a FastAi's TabularModel and XGBoost, achieving a log-loss of 0.0032, validation AUC-ROC score of 1.0, validation accuracy of 1.0, and public leaderboard score of 0.99998.
- Trained a model with 59 million parameters that can be exported to a size of 252 MB.

SKILLS

- Programming Languages: Python
- Machine Learning Libraries: PyTorch, FastAi, HuggingFace
- Data Manipulation and Visualization: Pandas, Numpy, Matplotlib

EXPERTISE

- Experience with MLOPS with Weights & Biases for experiment tracking, model management, and data versioning.
- Developed deep learning computer vision models with 94% and 98% validation accuracy on image classification tasks, and deployed real-time pet breed and bird species detection web applications with Streamlit with an average inference time of 100ms.

EDUCATION

- Bachelor of Technology in Computer Science Engineering (Undergraduate)
- Parul University (2019 - 2023)