DLP Week 11: Depth Estimation Challenge Kaggle Competition Instructions

Dear Students,

Please read the instructions below for Week 11's Graded Kaggle Competition for Depth Estimation.

Task

Develop a model that can estimate the depth of images.

Deadline

- Competition Deadline: Sunday, 30th March, 2025, 5:00 PM.

- Final Leaderboard Results: Monday, 31st March, 2025, 12:00 PM.

Important Links

- Kaggle Competition: Kaggle Competition Link

- Notebook Submission Google Form: Google Form Link

Important Note

Join the Kaggle Competition with your institute roll number as the team name. Submissions not following this rule will not be graded.

Dataset

The dataset for the Depth Estimation Challenge consists of pairs of RGB images and their corresponding ground truth depth maps, specifically designed to simulate real-world conditions. Each RGB image is intentionally corrupted with various environmental degradations to test the robustness of depth estimation algorithms.

- **Training Set:** Contains around 6700 images with corresponding depth maps for model training.

- **Validation Set:** Contains around 900 images for evaluating model performance.

- **Testing Set:** Contains around 900 images for testing the performance and leaderboard submission.

Evaluation

Submissions will be ranked on the leaderboard based on the RMSE Score. Final rankings will determine grading.

Submission Guidelines

- Submit the predicted depth map values as a CSV file on Kaggle using the format mentioned in the competition. Use `imgs2csv.py` to convert a directory of images to CSV format.

- Submit the Jupyter Notebooks and readme using the Google Form specified above.

- Rename both files as `ROLL_NO.ext`, where `ROLL_NO` is your institute roll number and `ext` is the appropriate file extension.

- The Google Form can be submitted only once. Ensure correctness before submission.

- The deadline for the Google Form is the same as the competition deadline.

Note: Please go through the Kaggle Competition Page for detailed instructions before submission.

Contact for Queries

For clarifications, contact the instructors.