Date Fruit Image Classification Project Presentation

The goal of this assignment is to present your project work in a clear, concise, and engaging manner. You will be required to explain your approach, the challenges you faced, and the results you achieved.

Minimum Slides:

- **Introduction:** Start with a brief introduction about yourself (and your team members and responsibilities if applicable), the project, and its significance.
- **Problem Description:** Explain the problem you were tasked to solve. Discuss the importance of date fruit classification and its potential applications.
- **Dataset:** Describe the dataset used in the project. Discuss the different types of date fruits included in the dataset and show some sample images. Present the dataset samples count per label charts for both training and test sets.
- **Methodology:**
  a. Discuss the Convolutional Neural Network (CNN) architecture you used or designed for this task.
  b. Explain any data preprocessing and augmentation techniques you applied.
  c. Discuss the optimizer and its hyperparameters used for training the model.
  d. Mention the number of epochs used for training and present the plots of loss and accuracy on the training and validation sets per epoch.
- **Results:**
  a. Present the evaluation results of your model on the provided test set. Include the full classification report and confusion matrix.
  b. Discuss the model's performance.
- **Challenges and Learnings:** Discuss any challenges you faced during the project and how you overcame them. Share what you learned from this project.
- **Conclusion:** Conclude your presentation by summarizing your work and discussing potential improvements or future work.

Presentation Duration

The presentation should not exceed 10 minutes. Please rehearse to ensure you stay within this time limit.

Evaluation

Your presentation will be evaluated based on clarity, content, engagement, and adherence to the time limit.

Submission Guidelines:

Submit **your presentation** in the LMS (in two formats, PDF & PPTX).