

Diary Entry - Week 9

Date: 09-09-2024 to 13-09-2024

Summary:

Week 9 revolved around the exploration of object detection techniques using Dataiku, focusing on object detection evaluation and strategies. Additionally, the week included participation in the Week 5 coding challenge.

Object Detection with Dataiku:

- Explored Dataiku, a collaborative data science platform, for implementing object detection algorithms.
- Learned techniques for preprocessing image data, training object detection models, and evaluating model performance within the Dataiku environment.

Object Detection Evaluation:

- Studied methods for evaluating object detection models, including metrics such as precision, recall, average precision, and mean average precision (mAP).
- Explored the importance of evaluation metrics in assessing the accuracy and effectiveness of object detection algorithms.

Strategies for Object Detection:

- Delved into various strategies and best practices for improving object detection performance.
- Explored techniques such as data augmentation, model fine-tuning, transfer learning, and ensemble methods to enhance the accuracy and robustness of object detection models.

Coding Challenge - Week 5:

- Participated in the Week 5 coding challenge, applying acquired knowledge to practical problem-solving scenarios.
- Engaged in hands-on exercises related to object detection, further reinforcing understanding and skills in computer vision tasks.