

CSE541 - Computer Vision

Weekly Report 9

**Improvising Object Tracking Algorithm SORT for Long-Term Trajectory Extraction**

Mentor: Mehul Raval

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Conducted an in-depth study of Mobile VNet architecture and its suitability for feature extraction in object tracking. Analyzed the SORT algorithm and identified areas where feature extraction could be enhanced to improve long-term trajectory extraction.Implemented Mobile VNet architecture for feature extraction within the SORT algorithm framework.Integrated the feature extraction module seamlessly into the existing SORT algorithm pipeline. Conducted rigorous testing to ensure compatibility and functionality of the enhanced algorithm. Evaluated the performance of the enhanced SORT algorithm with Mobile VNet feature extraction on benchmark datasets. Compared the results with baseline SORT algorithm performance to measure the improvement in long-term trajectory extraction.