DEEP LEARNING BASED VEHICLE TRACKING AND SPEED ESTIMATION SYSTEM IN RESTRICTED TRAFFIC ZONE Salman S, Prasanth Kumar R, Sai Niresh N Department of Computer Science and Engineering C Abdul Hakeem College of Engineering and Technology Guide: Mrs. P Revathi HOD: Dr K Abrar Ahmed ABSTRACT This research unveils a pioneering artificial intelligence-driven framework engineered to automate vehicle detection, tracking, and analysis within video streams, capitalizing on cutting-edge computer vision technologies. Constructed on the Flask web platform, the system synergizes YOLOv8 for high-precision object identification, ByteTrack for resilient multi-object tracking, and OpenCV for streamlined video processing, enabling accurate... (only first 800 chars shown)

Analysis complete. Our feedback is listed below in printable form. Some of the items have been truncated or removed to provide better print compatibility.

🔍 *Plagiarism Detection*

Original Work

Originality: 100%

➕ Congratulations! This paper seems to be **entirely original**.

More info on our originality scoring process (http://www.PaperRater.com/page/plagiarism-detection) .

🏳 *Word Choice*

Usage of Bad Phrases

Bad Phrase Score: 0.26 (lower is better)
The Bad Phrase Score is based on the quality and quantity of trite or inappropriate words, phrases, egregious misspellings, and cliches found in your paper. You did equal or better than **100%** of the people in your grade.

You

➕ Great work - your score is well above average! Continue choosing quality phrases in your writing.

⭐ *Style*

Usage of Transitional Phrases

Transitional Words Score: 78
This score is based on quality of transitional phrases used within your paper. You did equal or better than **69%** of the people in your grade.

You

➕ **Good job!** Your usage of transitional phrases is above average. Nevertheless, you may still benefit from reading the info below.

One sign of an excellent writer is the use of transitional phrases (e.g. therefore, consequently, furthermore). Transitional words and phrases contribute to the cohesiveness (http://www.PaperRater.com/vocab_builder/show/cohesiveness) of a text and allow the sentences to flow smoothly. Without transitional phrases, a text will often seem disorganized and will most likely be difficult to understand. When these special words are used, they provide organization within a text and lead to greater understanding and enjoyment on the part of the reader.

The following transitional phrases were found in your document:
specifically, and, especially, for example, similarly, however, for instance, particularly, furthermore, conversely, moreover, in contrast, nevertheless, consequently

Consider using additional transitions where appropriate:
- notwithstanding (http://paperrater.com/vocab_builder/show/notwithstanding)
- accordingly (http://paperrater.com/vocab_builder/show/accordingly)
- ordinarily (http://paperrater.com/vocab_builder/show/ordinarily)

These words and phrases fall under a few grammatical categories:
- Conjunctions: *but, provided, and, although*
- Prepositional phrases: *in addition to, in conclusion*
- Adverbs: *also, however, nevertheless*

Consider this example:
I lost my money; **therefore**, I could not buy a ticket.

The word **'therefore'** contributes to greater unity or cohesion between sentences and allows the text to flow more smoothly.

⭐ *Style*

Sentence Length Info

Total Sentences: 394
Avg. Length: 12.8 words
Short Sentences (< 17 words): 255 (65%)
Long Sentences (> 35 words): 12 (3%)
Sentence Variation: 10.9 words (std deviation)

❌ Your paper seems to be **lacking in complex sentences (http://blog.paperrater.com/2015/05/effective-use-of-sentence-length.html)** , due to overuse of shorter sentences.

Line chart of the length of each sentence (first 50 sentences). A jagged chart indicates variation.

Helpful Resources:

- Effective Use of Sentence Length (http://blog.paperrater.com/2015/05/effective-use-of-sentence-length.html)

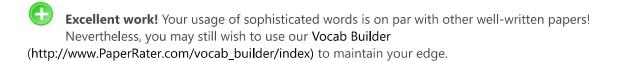## ⚙ *Vocabulary Words*

Usage of Academic Vocabulary

Vocabulary Score: 312.63
This score is based on the quantity and quality of scholarly vocab words found in the text. You did equal or better than **87%** of the people in your grade.

Vocabulary Word Count: 320
Percentage of Vocab Words: 8.06%
Vocab Words in this Paper (top 20):
elucidates, elucidating, underscore, pioneering, framework, constrained, facilitating, comprehensive, efficacy, mechanisms, regulatory, leveraging, facilitates, deployable, oversight, paradigm, paramount, applicability, leveraged, integrates

Excellent work! Your usage of sophisticated words is on par with other well-written papers! Nevertheless, you may still wish to use our Vocab Builder (http://www.PaperRater.com/vocab_builder/index) to maintain your edge.

Tips
Whether you are writing for a school assignment or professionally, it is imperative that you have a vocabulary that will provide for clear communication of your ideas and thoughts. You need to know the type and level of your audience and adjust your vocabulary accordingly. It is worthwhile to constantly work at improving your knowledge of words. To help with this task, please consider using our Vocabulary Builder (http://www.PaperRater.com/vocab_builder/index) to improve your comprehension and usage of words.