

# CS455 Final Project

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## Abstract

## 1 Introduction

### 1.1 Background

#### 1.1.1 Distracted Driving

#### 1.1.2 Semantic Segmentation

#### 1.1.3 Vision Transformers

## 2 Methods

The SegFormer model was chosen as it is a modern ViT model designed for semantic segmentation, and builds upon the basic ViT models demonstrated by Dosovitskiy, et. al. [1] using

## 3 Results

## 4 Conclusion

## References

- [1] Alexey Dosovitskiy, Lucas Beyer, Alexander Kolesnikov, Dirk Weissenborn, Xiaohua Zhai, Thomas Unterthiner, Mostafa Dehghani, Matthias Minderer, Georg Heigold, Sylvain Gelly, Jakob Uszkoreit, and Neil Houlsby. An image is worth 16x16 words: Transformers for image recognition at scale. *CoRR*, abs/2010.11929, 2020.