Traffic Sign Recognition

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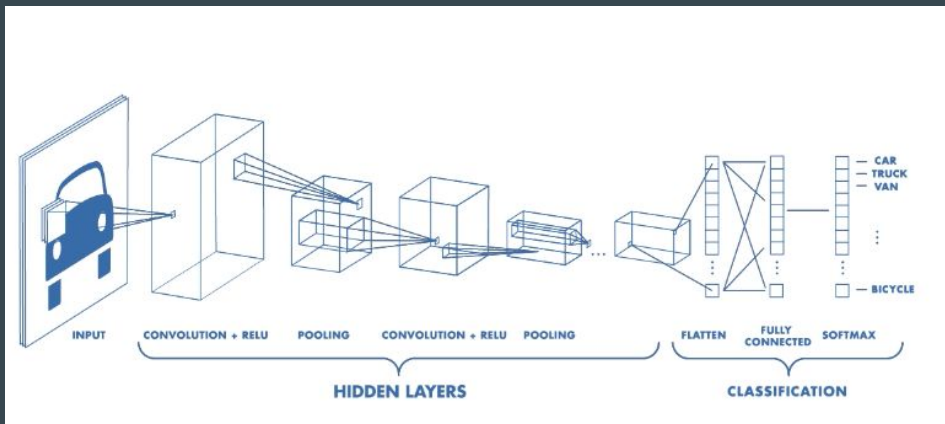
A piece of the puzzle to self driving cars

Agenda

- Business Mission
- Methodology
- Results
- Next Steps

Business Mission

"Develop a system for self driving cars that can correctly identify traffic signs"
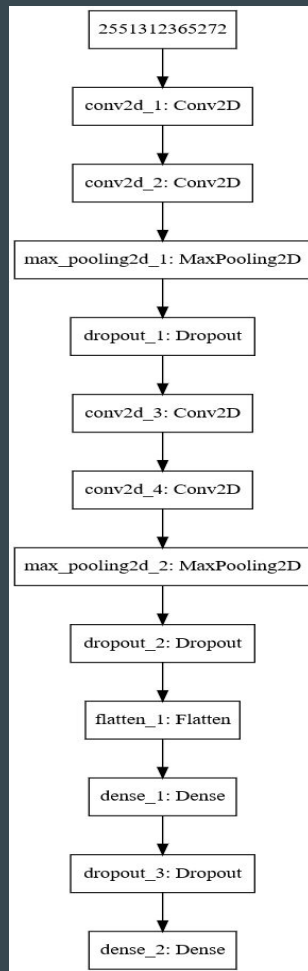
Methodology

1. Gather images of traffic signs
2. Process images
3. Create, experiment, and finalize a CNN
4. Test final CNN with new traffic sign images

Results

- 97% accurate with validation data
- 94% accurate with testing data

Next Steps

- User a more powerful machine to add on to our initial CNN
- Develop a deeper CNN to increase accuracy
- Use our CNN on augmented versions of our images
  - Rotated
  - Warped
  - Shaded
  - Etc
- Achieve a 99% accuracy for validation and testing images before implementing in self driving vehicles