**An Overview on Google’s Brain and its Applications**

**Project Proposal**

1. Abstract (a brief summary of the research topic)
2. **(10 %) Introduction of Artificial Intelligence:**
   * Definition of Artificial Intelligence
   * Definition of Machine Learning
     + Definition of Deep Learning
   * Applications
     + TensorFlow
3. **(10 %) Introduction of Google’s Brain** 
   * Definition
   * Research areas
   * Applications
4. **(15%) Image Recognition** 
   * WAE algorithm (improve image quality)
   * ImageNet
   * Use in medical imaging
     + For detecting diabetic retinopathy in retinal images
5. **(15 %) Speech Recognition**
   * Machine perception
6. **(15%) Machine Translation**
   * Automating Machine learning (find its own mistake and resolve it)
   * Image captioning (translate picture into sentences e.g. a group of boy are playing Ping-Pong)
7. **(25%) TensorFlow**
   * Algorithm (Eager execution, XLA)
8. **(5%) Summary and conclusions**
9. **(5%) References**