**Final Project Proposal**

1. **Members**

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1. **Introduction/Motivation**

* Briefly introduce your project. / What problem you want to solve?  
  We want to use GANs to learn what features make the handwritten images real. After improving the algorithms, we can finally generate lifelike image digits.
* Motivation.  
  Generating Confrontation Network (GAN) is a popular form of network generation in recent years. Compared with the traditional power generation model, it reduces the model constraints and generator constraints and has better power generation capability. We want to try to learn this technology on real-world data, so we found a common dataset to do the practical operation.
* Dataset to be used.  
  The MNIST database of handwritten digits from NIST.

1. **Technical Part**

* What model you might use?  
  Generative Adversarial Networks (GANs)

1. **Date**

* Progress arrangements  
  04/22 ~ 05/05 Understand GANs, and learn how algorithms work  
  05/06 ~ 05/19 Do the generator network and the discriminator network

05/20 ~ 06/02 Do training and improve GANs

06/03 ~ 06/09 Write the project report

1. **Reference**<https://skymind.ai/wiki/generative-adversarial-network-gan>
2. **Volunteer to Present?**

**Yes**  **No**