Good Afternoon Everyone!

Thank you professor, friends & everyone else present in this hall for being here in my defense!

It’s me Shiva Kumar Shrestha, student of ME Computer & my Thesis Title is:

“*Photographic Text-to-Image Synthesis via Multi-turn Dialogue using Attentional GAN*”

Let’s move on the overview of my presentation: It’ll take about 10 minutes to describe from introduction to thesis schedule.

Within Introduction Section, I’ll cover Background, Problem Statements, Motivation, Research Objective & Thesis Scope. Then I’ll move to Literature Review. And I’ll cover Proposed Solution, Algorithm, Datasets, Tools & Platforms within Methodology Section. Then I’ll explain Expected Outcome & Thesis Schedule.

Let’s move on to the Introduction Section of my Thesis Proposal Presentation: My Thesis Work is based on Attentional Generative Adversarial Network (AttnGAN). *Generative Adversarial Network (GAN) is introduced by Ian Goodfellow in 2014 at his Ph.D. Thesis. & he is also known as father of GAN.*

In left fig, we can see taxonomy of generative model. Here, GAN is inherited from **Implicit Density** of **Maximum Likelihood** generative model. In right fig, we can see GAN Framework. Typically, a GAN consists of two networks: generator and discriminator. A Generator produces interesting data from noise, and a Discriminator detects fake data fabricated by the Generator. As the discriminator becomes a better detective, the generator becomes a better faking-artist. After a suﬃcient number of epochs, the generator can create surprisingly realistic images. The **D** tells real or fake as per sample generated by generator & **G** try to generate realistic picture with the help of losses. So, finally there exist a unique solution & D n/w tells real at that point.

Let’s move on to the Problem Statement: