

# Translational AI Center (TrAC) Training Fall 2023

## **ADLRG Mini-Course: Generative AI (Vision)**

**Nov. 13<sup>th</sup>, 2023, 4:00 – 6:00 PM (Session 1)**

**Nov. 20<sup>th</sup>, 2023, 4:00 – 6:00 PM (Session 2)**

**Location: Online (Zoom)**

Join us for a four-hour tutorial exploring current AI techniques and innovative approaches with the potential to reshape various domains. The final list of topics will be tailored to participants' interests based on a survey during registration.

### **Tentative list of topics:**

1. Generative Adversarial Networks (GANs)
2. Variational Autoencoders (VAE) & Vector Quantized Variational Autoencoders (VQ-VAE)
3. Diffusion Models
4. Latent Diffusion Models
5. Stable Diffusion and applications

### **Additional discussions and content:**

- Trends in Generative Modeling from technical and application perspectives.
- Translating GenAI: Explore how Generative Modeling techniques can be adapted to various domains.
- Example code for a variety of different generative modeling algorithms.

**When: Nov. 13<sup>th</sup>, 4 PM – 6 PM (Session 1)**

**Nov. 20<sup>th</sup>, 4 PM – 6PM (Session 2)**

**Mode of Instruction: Online Zoom**

### **Registration:**

To register for the tutorial and complete the survey, please visit: <https://forms.gle/o8t4NAnEcfBE1GJ6A>

Registration deadline: **Nov. 13<sup>th</sup>, 2023**

### **Registration Cost:**

**Students: \$30**

**Industry Professionals: \$250** (we will send you invoice after you fill the registration survey)

### **Contact Information:**

For more information, please email: [baditya@iastate.edu](mailto:baditya@iastate.edu)



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