# Live Session: Al in AEC Papers Review

## Agenda

- ML Basics
- AI in AEC Overview
- Paper Discussion
- General Discussion

### ML Basics

- Neural Network
- CNN
- RNN
- VAE
- GAN

### AEC AI APPLICATION

- Events
  - Stanford : AI4AEC
  - DC I/O
  - ETH Zurich
  - Acadia

### **Seven Categories:**

Al in Construction

#### Source :

https://cbips.engineering.columbia.edu/sites /default/files/content/publications/AEC%20A I%20research.pdf



### **Papers Review**

 https://drive.google.com/drive/folders/1IzJXOflgxNZ5UCskNkaiOJb WlsKpUdal?usp=sharing

### Al Applications

- NVDIA GauGAN (Sketch to Realistic images)
  - http://nvidia-research-mingyuliu.com/gaugan
- Draw together with Neural Network
  - https://magenta.tensorflow.org/assets/sketch\_rnn\_demo/index.html

### **General Discussion**

- Paper Q n A
- What are some areas of improvement in AEC?
- According to you, what are
- Is there any particular topic you want to know more about in future sessions
- Feedback: Tips on improving the structure / content of live sessions to be more effective
- Other questions

### Learning Resources

https://github.com/Mistrymm7/AlforArchitects