



### **FACULTY MENTOR**

Seshadri, Nambi

### **PROJECT TITLE**

Machine learning for communication systems

### **PROJECT DESCRIPTION**

We will examine applications of modern tools of machine learning to various building blocks of a communication system- signal compression, modulation and demodulation, and error protection.

### **INTERNS NEEDED**

2 BS Students and 2 MS Students

### **PREREQUISITES**

Undergraduates must have taken courses in signal processing and communication systems. MAs students must have taken advanced courses in various aspects of wireless communications and modern concepts in channel coding (convolutional codes, turbo, ldpc and polar codes).