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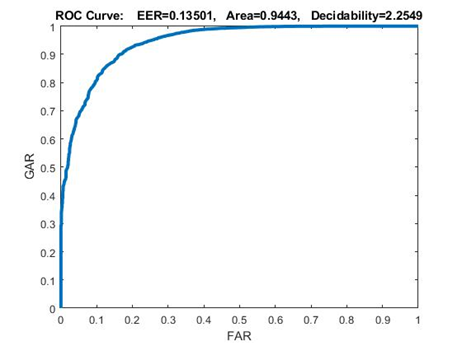
## Summary of Project 1:

### **Face Recognition System: Application of Supervised Learning**

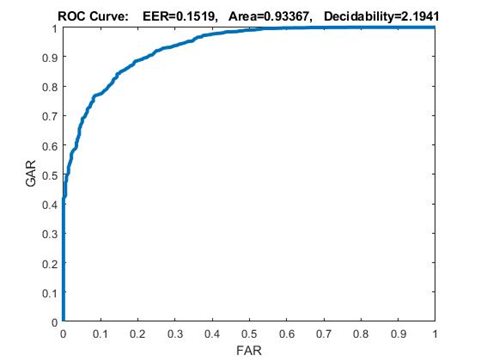
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Mode 1: For each subject, use the first five images (1.pgm to 5.pgm) for training the subspace. Use the files 6.pgm to 10.pgm for the performance evaluation.



Mode 2: Use the first twenty five subjects (1.pgm to 10.pgm) for training the subspace. Use the rest 15 subjects for the performance evaluation.



Mode 1 has EER **0.135** when compared to Mode 2 has EER **0.151.**  It clearly shows that mode 2 has more EER than mode 1. For authentication face recognition system requires the genuine acceptance rate to be precise as per results the mode 1 is more suitable, for identification face recognition system requires FAR to be more precise and as per the results Mode 2 performs well and more suitable.