IEEE- ML Club Meeting-1

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Dont write anything in blank spaces. Only scribble or draw visualizations in a way that helps you remember

Name : _____

1. Define Machine Learning. Write top three python packages to try out.

2. Plot the people attending "Music Award Program" with the features being salary on x-axis and following on y-axis.

3. What is soo **"super"** in Supervised Learning? Why is semi-supervised learning perfect fit for mining web?

4. What is **post**erior probability in spam non-spam classifier? Mark it in the bellow Equation.

$$P(email = spam|emails - bow) \propto P(emails - bow|email = spam) * P(spam) \quad (1)$$

5. What is cost Function and the gradient in Regression problem?

6. Can you visualize regression problem in two different spaces? Co-ordinate space and Parametric Space? Can you think of it for classification problem too?

7. Why is gradient-descent algorithm called fulcrum for most of the learning algorithms.

8. How do you smell overfitting in learning problem? What are the possible solutions? What is train-test split? What is n-fold validation?

9. Describe precision, Recall, Accuracy seperately.(Homework Question)

10. What is AI Winter? How did Neural Networks survive it? What makes deep learning different from neural networks?

11. What is symbolic evaluation? And how is it different from normal evaluation?

12. What is Tensor in Tensorflow? How is constant Variable different from placeholder variable in tensorflow?

13. What is a session in tensorflow? What does optimizer in tensorflow do? Is the optimizer facilitating forward evaluation or backward update?

14. How does Keras perfectly complement Tensorflow?