Linear models

Quiz, 3 questions

1 point

1.

Consider a vector $(1, -2, 0.5)$. Apply a softmax transform to it and enter the first component (accurate to 2 decimal places).

0.60

1 point

2.

Suppose you are solving a 5-class classification problem with 10 features. How many parameters a linear model would have? Don't forget bias terms!

55

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1 point

3.

There is an analytical solution for linear regression parameters and MSE loss, but we usually prefer gradient descent optimization over it. What are the reasons?

- [ ] Gradient descent can find parameter values that give lower MSE value than parameters from analytical solution
- [ ] Gradient descent is a method developed especially for MSE loss
- [ ] Gradient descent is more scalable and can be applied for problems with high number of features
- [ ] Gradient descent doesn't require to invert a matrix

- [ ] I, **Rohit Kumar**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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