程序代写代做 CS编程辅导

proposal
April 9, 2023

1 CS 449 Fin

Due: April 18, 2023 at 11:59pm

1.1 1. Names and Net Ps List your group members Chat: cstutorcs

1.2 2. Abstract

Your abstract should be two or the sentences describing the motivation for your project and your proposed methods.

For example: Email: tutorcs@163.com

Our final project seeks to use a variety of sklearn models to classify handwritten digits in the MNIST dataset. We will compare models such as Logistic Regression and DecisionTreeClassifier.

OO: 749389476

1.3 3. Introduction

Why is this project interesting to you? Describe the motivation for pursuing this project. Give a specific description of your lates and the land to gain gain you will focus on.

For example:

It is very important for us to be able to automatically recognize handwritten digits so that the Postal Service can identify whether a letter has been sent to the correct address. We will use a large dataset of handwritten digits and train our models to input the black-and-white pixels of those digits and output the number that was written. [etc. etc.]

1.4 4a. Describe your dataset(s)

List the datasets you plan to use, where you found them, and what they contain. Be detailed! For each dataset, what does the data look like? What is the data representation? (e.g., what resolution of images? what length of sequences?) How is the data annotated or labeled? Include citations for the datasets. Include at least one citation of previous work that has used your data, or explain why no one has used your data before.

For example:

We use the popular MNIST dataset, which contains 70,000 different 28x28 pixel greyscale images of handwritten days. The dataset was parted by the contains Census Bureau in 1998 ...

1.5 4b. Load you

Demonstrate that you me progress with getting your dataset ready to use. Load at least a few example as best you can

```
import matplotlib

from sklearn.data...

X, y = load_digits(return_X_y=True)
fig, axes = plt.supvors(nrdws_1t.ncels=tuftgaiper($0, 5), sharex=True,)
plt.gray()
for i, axis in enumerate(axes):
    axis.matshow(X[i, :].reshape(8, 8))
plt.show()

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1.6 5. Methods https://tutorcs.com

Describe what methods you plan to use. Cite at least one or two relevant papers. What kind of neural network architectures will you use? What loss function(s) will you use and why? How will you evaluate your model's ability to generalize to new data?

For example:

This is a standard supervised learning task, and we will use sklearn's Logistic Regression model to predict digit labels from their pixels. The model will contain one weight per pixel. We will train our model using Cross-Entropy loss, because...

1.7 6. Deliverables

Include at least six goals that you would like to focus on over the course of the quarter. These should be nontrivial, but you should have at least one and hopefully both of your "Essential" goals done by the project update, due. Your "Stretch" goals should be ambitious enough such that completing one is doable, but completing both this quarter is unlikely.

1.7.1 6.1 Essential Goals · (At least two goals of the CS编程辅导)

For example:

We will use a I MNIST data.

a Multilayer Perceptron to train and test on our

1.7.2 6.2 Desired

• (At least two go



We will conduct a thorough hyperparameter search for all our models and provide a detailed and practical guide for how a researcher should search for good hyperparameter values. hat: cstutorcs

1.7.3 6.3 Stretch Goals

• (At least two goals here) > For example: >> We will conduct a manual analysis of the digits that our model gets wrong and use a GAN to create new images that help us learn a more robust classifier.

7. Hopes and Emperis: tutores@163.com

What are you most excited about with this project? What parts, if any, are you nervous about? For example:

Q: 749389476 For example:

We're worried that we'll get really bored of staring at pixelated hand-written digits for hours on end.

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1.9 8. References

Cite the papers or sources that you used to discover your datasets and/or models, if you didn't include the citation above.

For example:

LeCun, Yann, et al. "Gradient-based learning applied to document recognition." Proceedings of the IEEE 86.11 (1998): 2278-2324.