|  |  |  |
| --- | --- | --- |
| **Full names** | **Students id** | **Contributions** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**For each of the sections below, report the obtained accuracy on your test**.

**KNN**

*Report the different k values you tried and the k value that you found to be best in the table below. In addition, report the validation and testing accuracy for your implementation with this best k value:*

|  |  |
| --- | --- |
| k values tried: |  |
| Best k value: |  |
| Validation accuracy: |  |
| Test accuracy: |  |

**Linear regression**

*Briefly describe the hyperparameter settings you tried. In particular, you should list the different values for learning rate and number of epochs you tried. You should also mention whether adding a learning rate decay helped and how you implemented this decay. Report the optimal hyperparameter setting you found in the table below. Report your training, validation, and testing accuracy with your optimal hyperparameter setting.*

|  |  |
| --- | --- |
| Optimal hyperparameters: |  |
| Training accuracy: |  |
| Validation accuracy: |  |
| Test accuracy: |  |

**SVM**

*Describe the hyperparameter tuning you tried for learning rate, number of epochs, and regularization constant. Report the optimal hyperparameter setting you found in the table below. Also report your training, validation, and testing accuracy with your optimal hyperparameter setting.*

|  |  |
| --- | --- |
| Optimal hyperparameters: |  |
| Training accuracy: |  |
| Validation accuracy: |  |
| Test accuracy: |  |

**Logistic regression**

*Once again, describe the hyperparameter tuning you tried for learning rate, number of epochs, and regularization constant. Report the optimal hyperparameter setting you found in the table below. Also report your training, validation, and testing accuracy with your optimal hyperparameter setting.*

|  |  |
| --- | --- |
| Optimal hyperparameters: |  |
| Training accuracy: |  |
| Validation accuracy: |  |
| Test accuracy: |  |