

HW

- Calculate MSE(Mean Square Error), MAE(Mean Absolute Error), cross-entropy for these two models:

| Model 1 | | Probability | | | Answer | | |
|---------|-------|-------------|-----|-------|--------|-----|-------|
| Target | | Dog | Cat | Other | Dog | Cat | Other |
| Data 1 | Dog | 0.4 | 0.3 | 0.3 | 1 | 0 | 0 |
| Data 2 | Cat | 0.3 | 0.4 | 0.3 | 0 | 1 | 0 |
| Data 3 | Dog | 0.5 | 0.2 | 0.3 | 1 | 0 | 0 |
| Data 4 | Other | 0.6 | 0.2 | 0.2 | 0 | 0 | 1 |

| Model 2 | | Probability | | | Answer | | |
|---------|-------|-------------|-----|-------|--------|-----|-------|
| Target | | Dog | Cat | Other | Dog | Cat | Other |
| Data 1 | Dog | 0.8 | 0.1 | 0.1 | 1 | 0 | 0 |
| Data 2 | Cat | 0.1 | 0.7 | 0.2 | 0 | 1 | 0 |
| Data 3 | Dog | 0.7 | 0.1 | 0.2 | 1 | 0 | 0 |
| Data 4 | Other | 0.4 | 0.3 | 0.3 | 0 | 0 | 1 |