

a01_2

October 3, 2025

```
[1]: # ---
# jupyter:
#   jupyter:
#     text_representation:
#       extension: .py
#       format_name: percent
#       format_version: '1.3'
#       jupyter_text_version: 1.16.7
#   kernelspec:
#     display_name: Python (ML25_assignments)
#     language: python
#     name: ml25
# ---

# %% [markdown]
# # 2 Prediction

[2]: # %%
# %load_ext autoreload
# %autoreload 2
from a01_helper import *
from a01_functions import nb_train, nb_predict

[3]: # Test your code
model = nb_train(Xex, yex, alpha=2)
nb_predict(model, Xex)
# This should produce:
# {'logprob': array([-0.41925843, -0.55388511, -0.68309684, -0.29804486]),
#  'yhat': array([0, 1, 2, 0], dtype=int64)}

[3]: {'yhat': array([0, 1, 2, 0]),
      'logprob': array([-0.41925843, -0.55388511, -0.68309684, -0.29804486])}
```