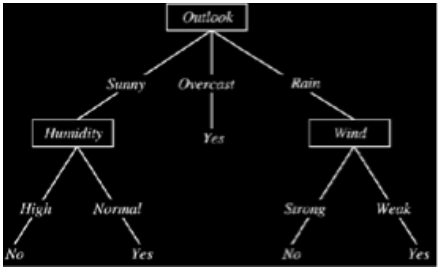
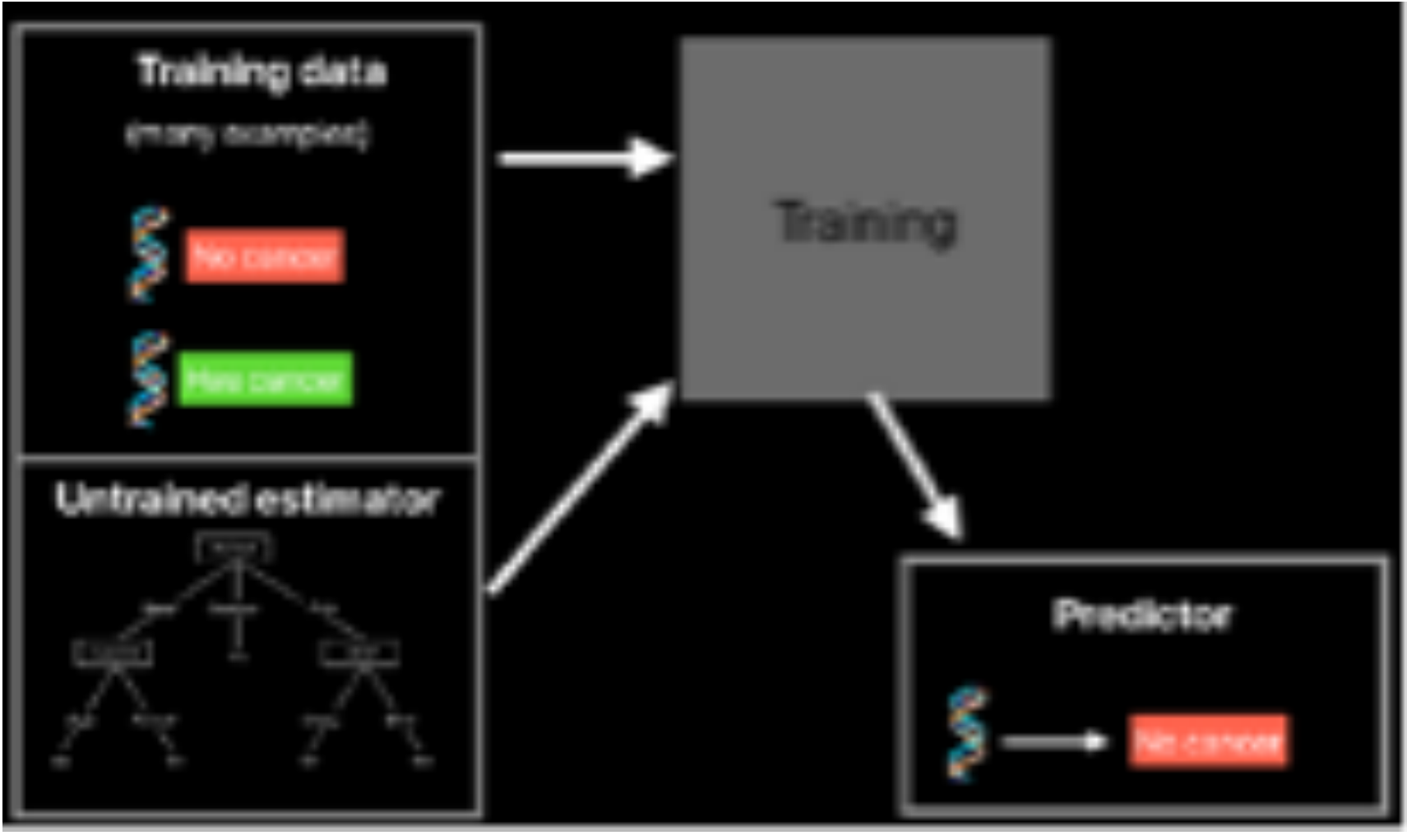
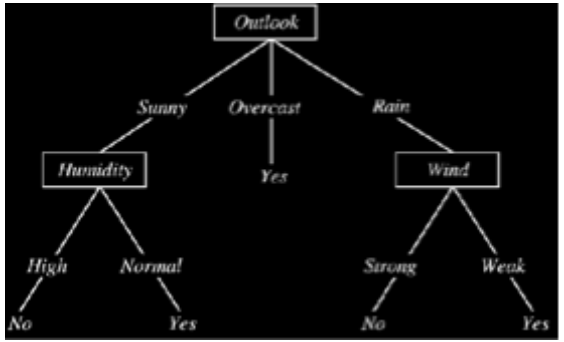

Training

specifically not




Training data
No cancer
Has cancer
Untrained estimator
Training
Predictor

https://github.com/stsievert/talks




```python
from sklearn.linear_model import LogisticRegression

estimator = LogisticRegression(
    penalty="l1",
    tol=1e-8,
    C=0.1,
    solver="saga",
)
```

Training

```
estimator.fit(X_train, y_train)
estimator.score(X_test, y_test)
```

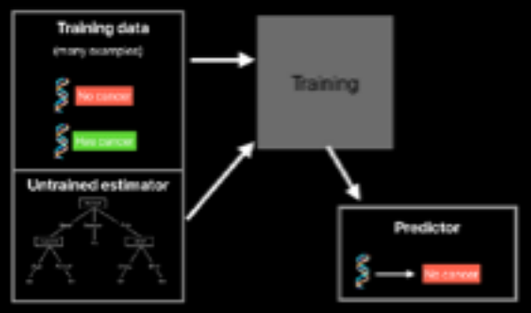
```
from keras.models import Sequential
from keras.layers import Dense

model = Sequential()
model.add(Dense(10, activation='softmax'))

model.compile(
    loss=keras.losses.categorical_crossentropy,
    optimizer=keras.optimizers.Adadelta()
)
```

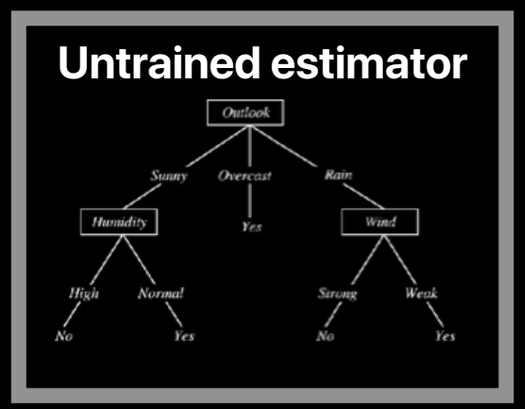
```
model.fit(x_train, y_train)
score = model.evaluate(x_test, y_test)
```

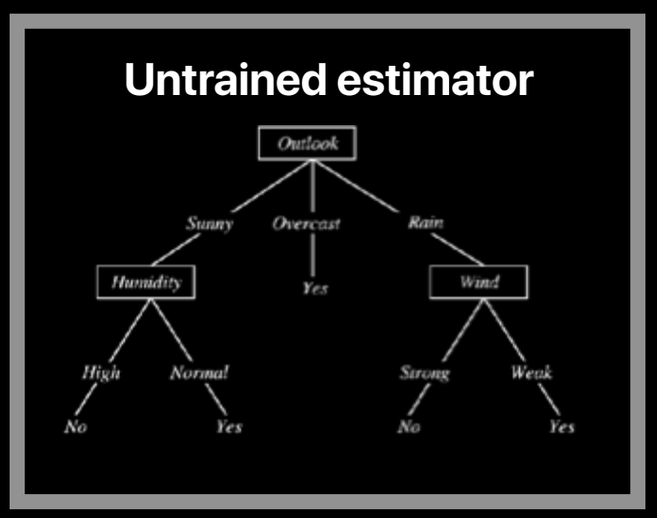
What will I talk about?



Software required for **Training**, not the math required

...and specifically not software required for





Training

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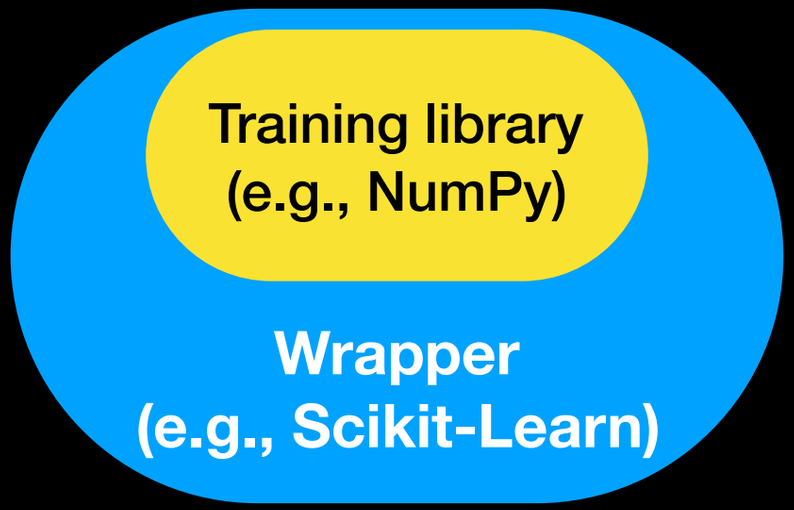
```
from keras.models import Seq
from keras.layers import Den

model = Sequential()
model.add(Dense(10, activati

model.compile(
    loss=keras.losses.catego
    optimizer=keras.optimize
)
```

```
model.fit(x_train, y_train)
score = model.evaluate(x_tes
```

https://github.com/stsievert/talks

Every library has wrappers to create models easily.



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