

## Agile model

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from sklearn.preprocessing import PolynomialFeatures
from sklearn.linear_model import LinearRegression
from sklearn.pipeline import make_pipeline

days = np.array([1, 2, 3, 4, 5]).reshape(-1, 1)
temps = np.array([30, 32, 35, 40, 46])

model = make_pipeline(PolynomialFeatures(2), LinearRegression())
model.fit(days, temps)

days_pred = np.linspace(1, 5, 100).reshape(-1, 1)
temps_pred = model.predict(days_pred)

plt.scatter(days, temps, color='red', label='Actual Data')
plt.plot(days_pred, temps_pred, label='Agile Quadratic Model')
plt.xlabel('Days')
plt.ylabel('Temperature (°C)')
plt.legend()
plt.show()
```