

exercise-6

January 13, 2023

1 Week 6 - Linear Regression

Learning contents:

1. Linear models
 - Polynomial function
 - Radial basis function
 - Sigmoidal basis function
 - Optimization of Error function
 - Test models
2. Bayesian Linear Regression
 - Generate data
 - Fit the data
 - Predictive distribution

1.1 Dependencies

```
[ ]: import numpy as np
import matplotlib.pyplot as plt
from math import exp
from scipy.stats import multivariate_normal

import seaborn as sns; sns.set(); sns.set_palette('bright')
```

1.2 Generate Data

```
[ ]: def target_func(x): return np.sin(2*np.pi*x)

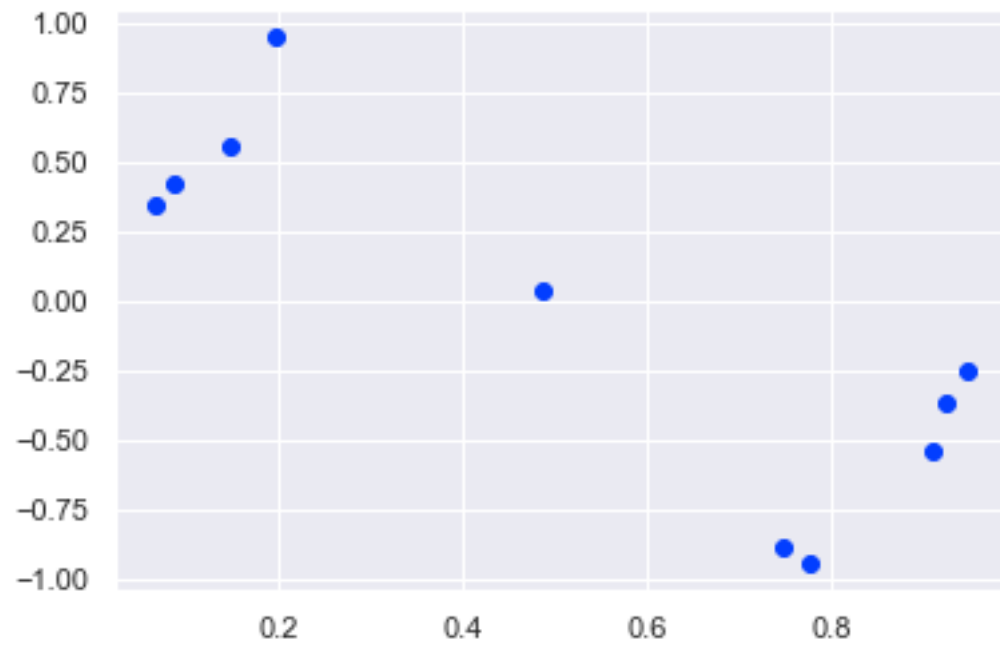
def generate_data(size):
    rng = np.random.RandomState(26052605)
    x_train = rng.uniform(0., 1., size)
    y_train = target_func(x_train) + rng.normal(scale=0.1, size=size)
    x_test = np.linspace(0., 1., 100)
    y_test = target_func(x_test)

    return x_train, y_train, x_test, y_test

x_train, y_train, x_test, y_test = generate_data(10)
```

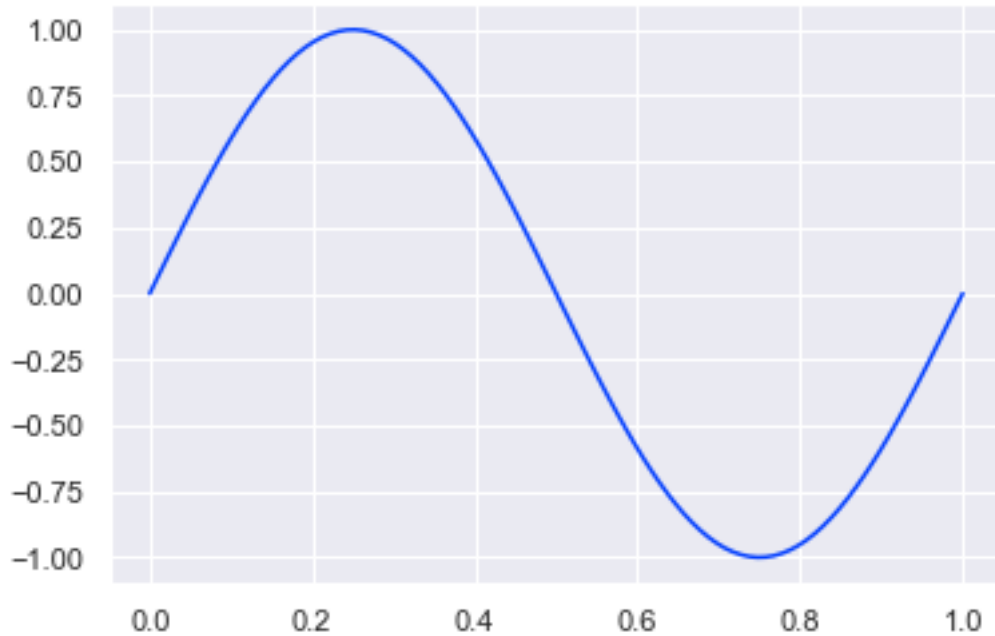
```
[ ]: plt.scatter(x_train, y_train)
```

```
[ ]: <matplotlib.collections.PathCollection at 0x158be857488>
```



```
[ ]: plt.plot(x_test, y_test, '-')
```

```
[ ]: [<matplotlib.lines.Line2D at 0x158bf025708>]
```



1.3 1) Linear models

`linear` takes data point `x` (scalar), `basis` function, and `weights` (list|ndarray (M+1)x1) and returns scalar

`basis` function takes `x` (scalar) and `i` (index) and returns `basis_i(x)` (scalar)

```
[ ]: def linear(x, basis, weights):
    basis_vec = [basis(x,i) for i in range(1, len(weights))]
    basis_vec = [1] + basis_vec

    return weights.T @ np.array(basis_vec)
```

1.3.1 1.1) Polynomial basis function

`create_polynomial` returns function that takes `x` (scalar) and `i` (index) and returns the `i`-th value (scalar) of a polynomial basis function

```
[ ]: def create_polynomial():
    def polynomial(x, i):
        return x**i

    return polynomial
```

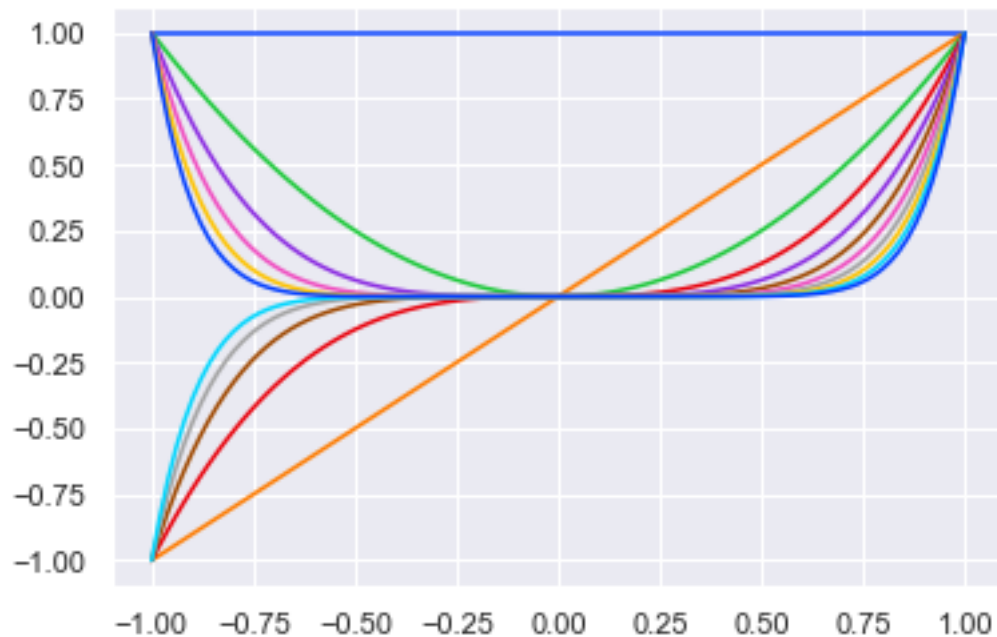
```
[ ]: x = np.linspace(-1, 1, 100)
    n = 11
```

```

polynomial = create_polynomial()

for i in range(n):
    y = list(map(lambda x: polynomial(x, i), x))
    plt.plot(x, y, '-')

```



1.3.2 1.2) Radial basis function

`create_radial` takes `means` and a `variance` as parameters and returns function that takes `x` (scalar) and `i` (index) and returns the `i`-th value (scalar) of a radial basis function

```

[ ]: def create_radial(means, variance):
    def radial(x, i):
        return np.exp( -(x-means[i])**2) / (2*variance) )

    return radial

```

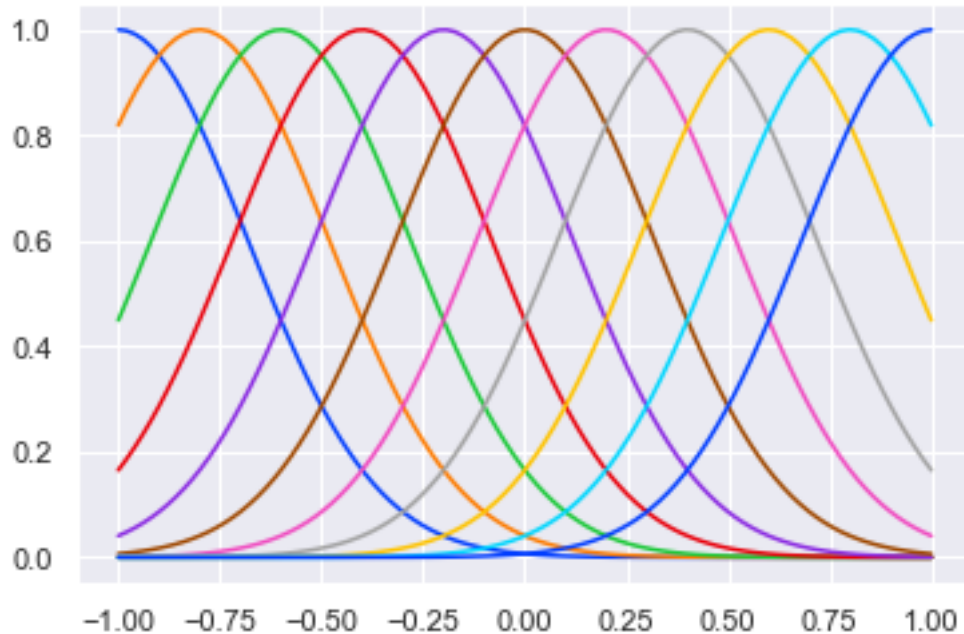
```

[ ]: x = np.linspace(-1, 1, 100)
    n = 11

    radial = create_radial(np.linspace(-1, 1, 11), 0.1)

    for i in range(n):
        y = list(map(lambda x: radial(x, i), x))
        plt.plot(x, y, '-')

```



1.3.3 1.3) Sigmoidal basis function

`create_sigmodal` takes means and a coefficient `s` as parameters and returns function that takes `x` (scalar) and `i` (index) and returns the `i`-th value (scalar) of a sigmoidal basis function

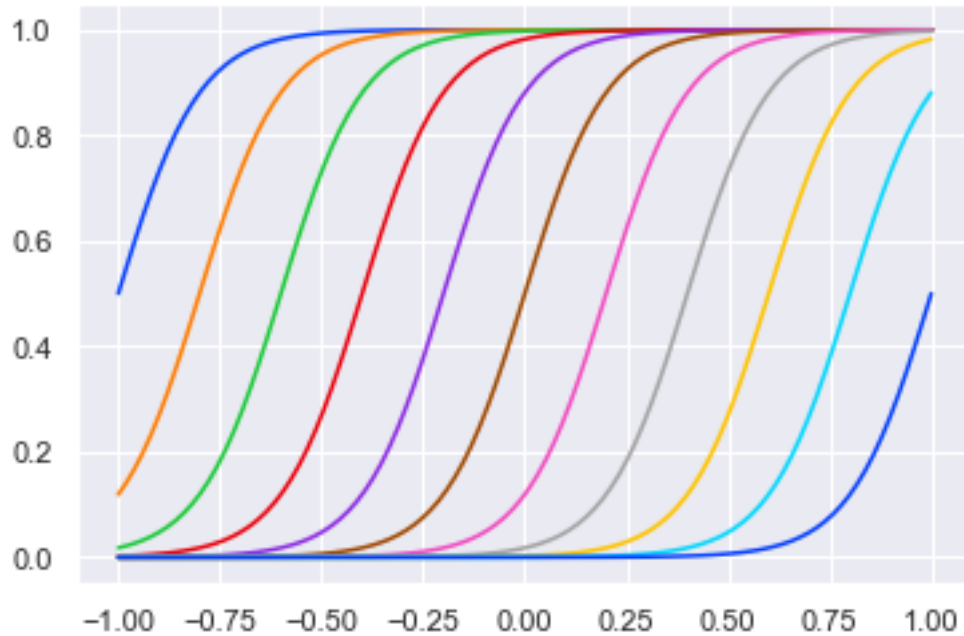
```
[ ]: def create_sigmodal(means, s):
    def sigmodal(x, i):
        return 1 / (1+np.exp(-((x-means[i])/s)))

    return sigmodal
```

```
[ ]: x = np.linspace(-1, 1, 100)
n = 11

sigmodal = create_sigmodal(np.linspace(-1, 1, 11), 0.1)

for i in range(n):
    y = list(map(lambda x: sigmodal(x, i), x))
    plt.plot(x, y, '-')
```



1.3.4 1.4) Optimization of Error function

`optimal_weights` takes `basis` (linear function that takes `x` (scalar) and `i` (index)), `inputs` (list `Nx1`), `targets` (list `Nx1`), and `M` (scalar number of weights) as parameters and returns optimal weights (list|ndarray `(M+1)x1`) for this data and basis function

```
[ ]: def optimal_weights(basis, inputs, targets, M):
    design = np.zeros((len(inputs), M))

    for n in range(len(inputs)):
        for j in range(M):
            if j == 0:
                design[n][j] = 1
            else:
                design[n][j] = basis(inputs[n], j)
    print(design)

    optimal_weights = np.linalg.inv(design.T @ design) @ design.T @ targets

    return optimal_weights
```

1.3.5 1.5) Test models

```
[ ]: def test(basis, M, label=''):
    plt.plot(x_test, list(map(lambda x: linear(x, basis,
    ↪optimal_weights(basis, x_train, y_train, M)), x_test)), '-', label=label)
    plt.plot(x_train, y_train, 'og')
    plt.legend()
```

```
[ ]: test(create_radial(np.linspace(-1, 1, 10), 0.1), 7, 'radial, M=7')
test(create_radial(np.linspace(-1, 1, 10), 0.1), 4, 'radial, M=4')
```

```
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[1.000000000e+00	8.55388161e-03	5.84409398e-02	2.43671500e-01]
[1.000000000e+00	6.74855512e-07	2.23302244e-05	4.50929829e-04]
[1.000000000e+00	8.83044941e-06	2.04694497e-04	2.89576367e-03]
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[1.000000000e+00	2.38645604e-02	1.27258664e-01	4.14147334e-01]
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[1.000000000e+00	1.36268501e-02	8.35048861e-02	3.12292738e-01]
[1.000000000e+00	8.55388161e-03	5.84409398e-02	2.43671500e-01]
[1.000000000e+00	6.74855512e-07	2.23302244e-05	4.50929829e-04]
[1.000000000e+00	8.83044941e-06	2.04694497e-04	2.89576367e-03]
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[1.000000000e+00	2.38645604e-02	1.27258664e-01	4.14147334e-01]
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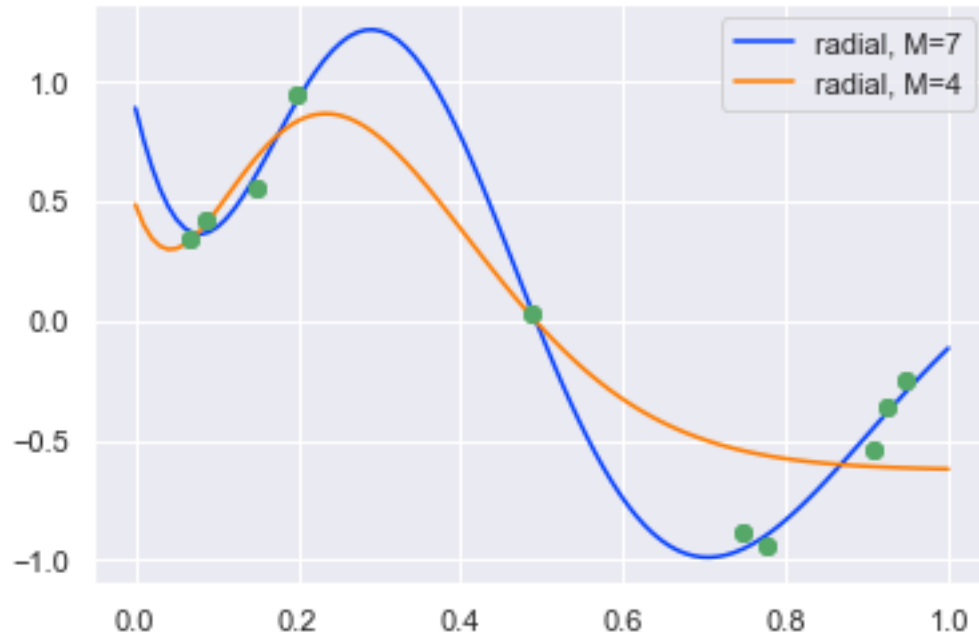
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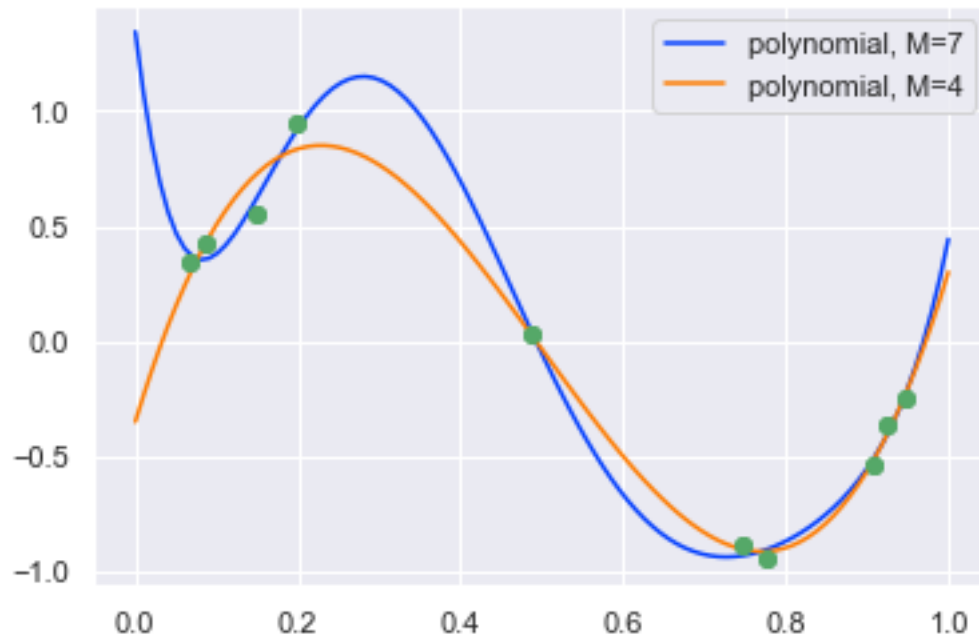
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test(create_sigmodal(np.linspace(0, 1, 8), 1), 4, 'sigmodal, M=4')
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[1.      0.48592833 0.45037425 0.41531989]
[1.      0.68580042 0.65423362 0.62124689]
[1.      0.65326176 0.62023613 0.58605814]
[1.      0.69089165 0.65958245 0.62681493]
[1.      0.5853101  0.55026802 0.51471987]
[1.      0.50156613 0.46590485 0.43058869]
[1.      0.51379909 0.47810232 0.44262782]
[1.      0.68246327 0.65073193 0.6176064 ]
[1.      0.64679183 0.61351455 0.5791421 ]]
[[1.      0.48089154 0.44538669 0.41043065]
[1.      0.48592833 0.45037425 0.41531989]
[1.      0.68580042 0.65423362 0.62124689]
[1.      0.65326176 0.62023613 0.58605814]
[1.      0.69089165 0.65958245 0.62681493]
[1.      0.5853101  0.55026802 0.51471987]
[1.      0.50156613 0.46590485 0.43058869]
[1.      0.51379909 0.47810232 0.44262782]
[1.      0.68246327 0.65073193 0.6176064 ]
[1.      0.64679183 0.61351455 0.5791421 ]]
[[1.      0.48089154 0.44538669 0.41043065]
[1.      0.48592833 0.45037425 0.41531989]
[1.      0.68580042 0.65423362 0.62124689]
[1.      0.65326176 0.62023613 0.58605814]
[1.      0.69089165 0.65958245 0.62681493]
[1.      0.5853101  0.55026802 0.51471987]
[1.      0.50156613 0.46590485 0.43058869]
[1.      0.51379909 0.47810232 0.44262782]
[1.      0.68246327 0.65073193 0.6176064 ]
[1.      0.64679183 0.61351455 0.5791421 ]]

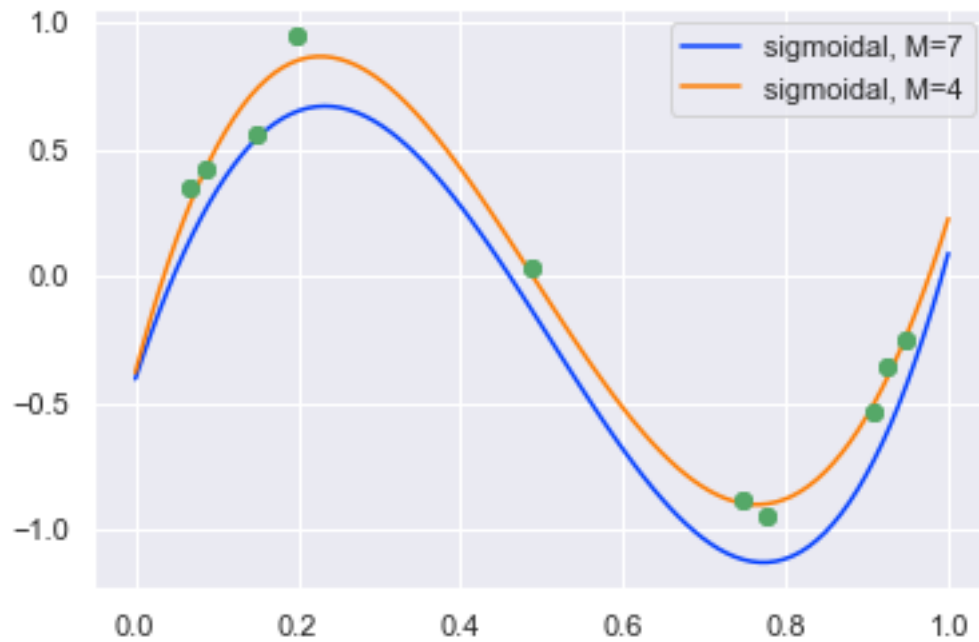
```

```

[1.      0.64679183 0.61351455 0.5791421 ]]
[[1.      0.48089154 0.44538669 0.41043065]
[1.      0.48592833 0.45037425 0.41531989]
[1.      0.68580042 0.65423362 0.62124689]
[1.      0.65326176 0.62023613 0.58605814]
[1.      0.69089165 0.65958245 0.62681493]
[1.      0.5853101  0.55026802 0.51471987]
[1.      0.50156613 0.46590485 0.43058869]
[1.      0.51379909 0.47810232 0.44262782]
[1.      0.68246327 0.65073193 0.6176064 ]
[1.      0.64679183 0.61351455 0.5791421 ]]
[[1.      0.48089154 0.44538669 0.41043065]
[1.      0.48592833 0.45037425 0.41531989]
[1.      0.68580042 0.65423362 0.62124689]
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[1.      0.5853101  0.55026802 0.51471987]
[1.      0.50156613 0.46590485 0.43058869]
[1.      0.51379909 0.47810232 0.44262782]
[1.      0.68246327 0.65073193 0.6176064 ]
[1.      0.64679183 0.61351455 0.5791421 ]]
[[1.      0.48089154 0.44538669 0.41043065]
[1.      0.48592833 0.45037425 0.41531989]
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[1.      0.65326176 0.62023613 0.58605814]
[1.      0.69089165 0.65958245 0.62681493]
[1.      0.5853101  0.55026802 0.51471987]
[1.      0.50156613 0.46590485 0.43058869]
[1.      0.51379909 0.47810232 0.44262782]
[1.      0.68246327 0.65073193 0.6176064 ]
[1.      0.64679183 0.61351455 0.5791421 ]]
[[1.      0.48089154 0.44538669 0.41043065]
[1.      0.48592833 0.45037425 0.41531989]
[1.      0.68580042 0.65423362 0.62124689]
[1.      0.65326176 0.62023613 0.58605814]
[1.      0.69089165 0.65958245 0.62681493]
[1.      0.5853101  0.55026802 0.51471987]
[1.      0.50156613 0.46590485 0.43058869]
[1.      0.51379909 0.47810232 0.44262782]
[1.      0.68246327 0.65073193 0.6176064 ]
[1.      0.64679183 0.61351455 0.5791421 ]]
[[1.      0.48089154 0.44538669 0.41043065]
[1.      0.48592833 0.45037425 0.41531989]
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[1.      0.65326176 0.62023613 0.58605814]
[1.      0.69089165 0.65958245 0.62681493]
[1.      0.5853101  0.55026802 0.51471987]
[1.      0.50156613 0.46590485 0.43058869]

```

```
[1.      0.51379909 0.47810232 0.44262782]
[1.      0.68246327 0.65073193 0.6176064 ]
[1.      0.64679183 0.61351455 0.5791421  ]]
```



1.4 2) Bayesian Linear Regression

1.4.1 2.1) Generate data

```
[ ]: def line_func(x): return -0.5 + 0.3 * x

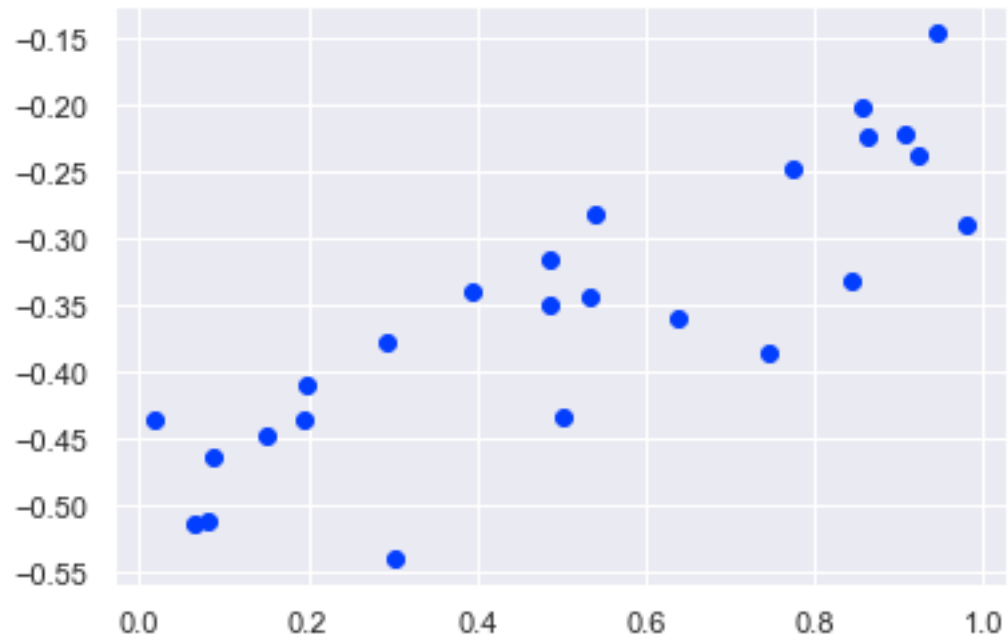
def generate_line_data(size):
    rng = np.random.RandomState(26052605)
    x_train = rng.uniform(0., 1., size)
    y_train = line_func(x_train) + rng.normal(scale=0.05, size=size)
    x_test = np.linspace(0., 1., 100)
    y_test = line_func(x_test)

    return x_train, y_train, x_test, y_test

xl_train, yl_train, xl_test, yl_test = generate_line_data(25)
```

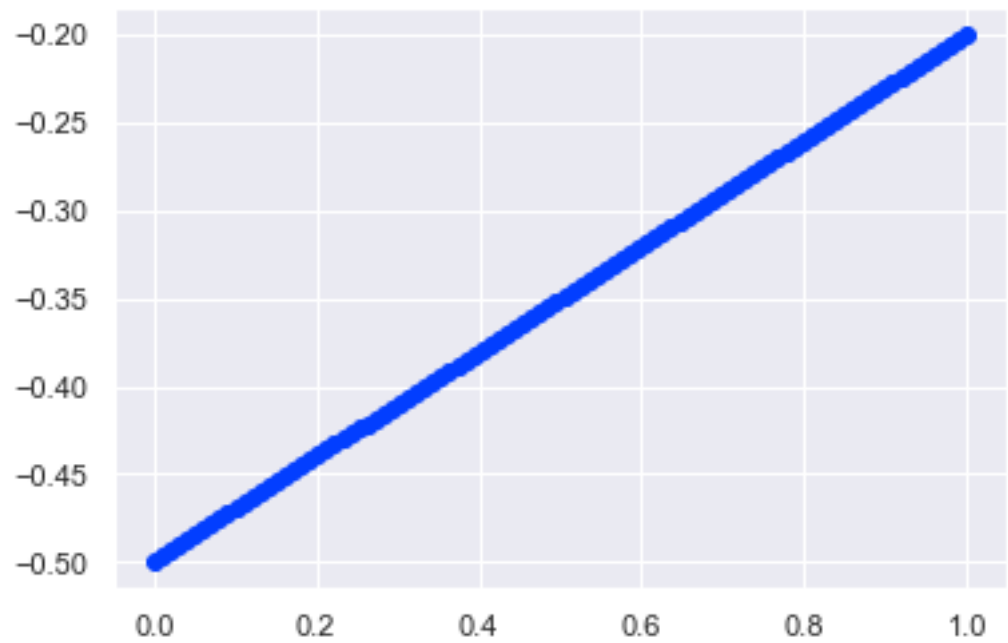
```
[ ]: plt.scatter(xl_train, yl_train)
```

```
[ ]: <matplotlib.collections.PathCollection at 0x158bf88eb88>
```



```
[ ]: plt.scatter(xl_test, yl_test)
```

```
[ ]: <matplotlib.collections.PathCollection at 0x158bf8df408>
```



1.4.2 2.2) Fit the data

`bayessian_regression_fit` takes `PHI` (ndarray $N \times (M+1)$), `t` (ndarray $N \times 1$ targets), `alpha` (scalar) and `beta` (scalar) as parameters and must return `mean` (ndarray $M \times 1$), and `covariance` (ndarray $M \times M$) for the weights

```
[ ]: def bayessian_regression_fit(PHI, t, alpha, beta):
    if (len(PHI) == 0):
        S_inv = alpha * np.eye(2) + (beta * PHI.T) @ PHI
    else:
        S_inv = alpha * np.eye(len(PHI[0])) + (beta * PHI.T) @ PHI

    S = np.linalg.inv(S_inv)
    mean = beta * S @ PHI.T @ t

    return mean, S

[ ]: alpha = 1
    beta = 100

    x = np.linspace(-1, 1, 100)
    w0, w1 = np.meshgrid(
        np.linspace(-1, 1, 100),
        np.linspace(-1, 1, 100)
    )
    w = np.array([w0, w1]).transpose(1, 2, 0)

    basis = create_polynomial()

    M = 1

    PHI = np.array([[basis(x[q], i) for q in range(len(x))] for i in range(M + 1)]).
        ↪T
    PHI_train = np.array([[basis(xl_train[q], i) for q in range(len(xl_train))] for
        ↪i in range(M + 1)]).T

    for begin, end in [[0, 0], [0, 1], [3, 6], [4, 7], [3, 20]]:

        w_mean, w_cov = bayessian_regression_fit(PHI_train[begin:end],
        ↪yl_train[begin:end], alpha, beta)

        w_sample = np.random.multivariate_normal(
            w_mean.reshape(-1), w_cov, size=6
        )
        y_sample = PHI @ w_sample.T

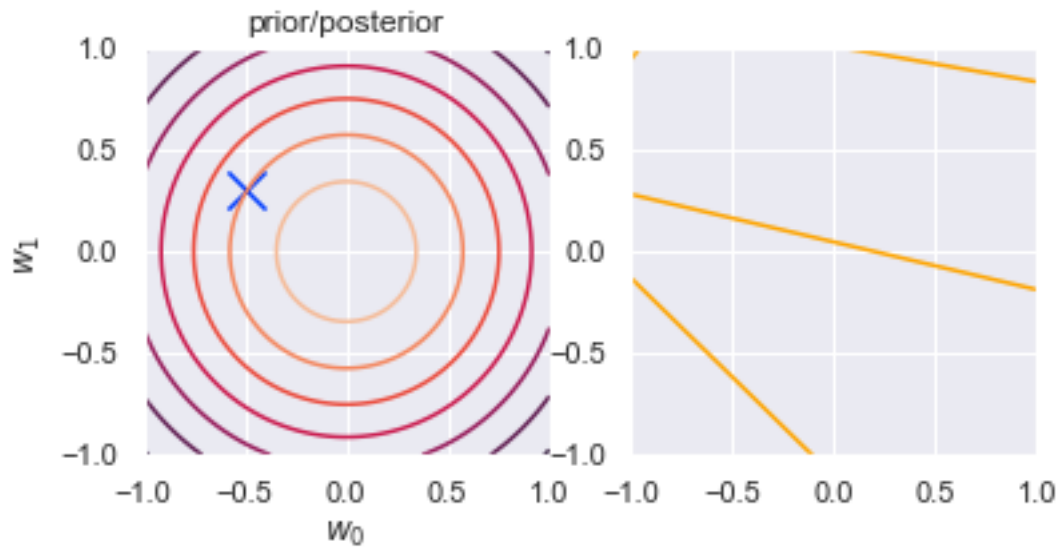
    plt.subplot(1, 2, 1)
```

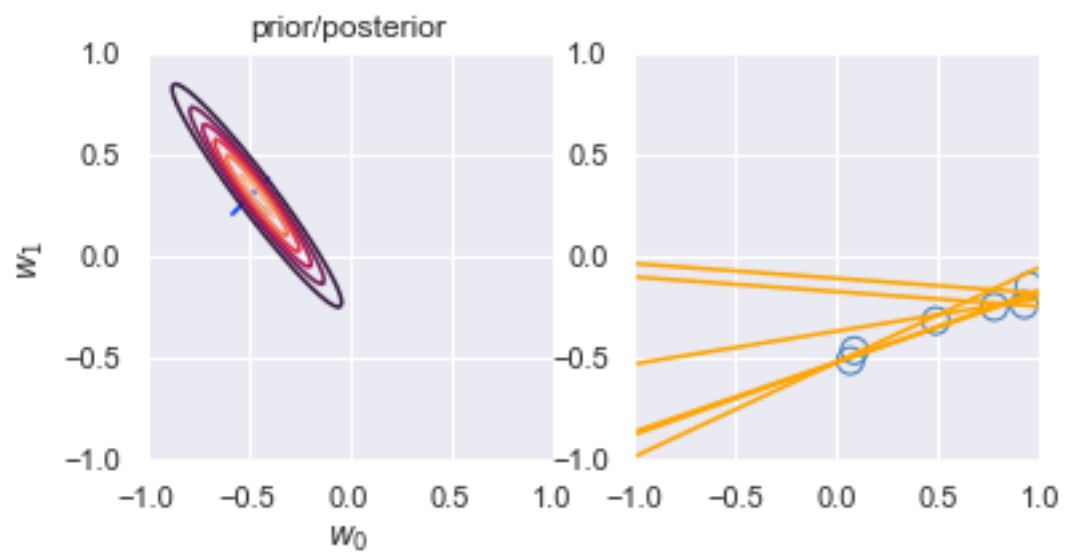
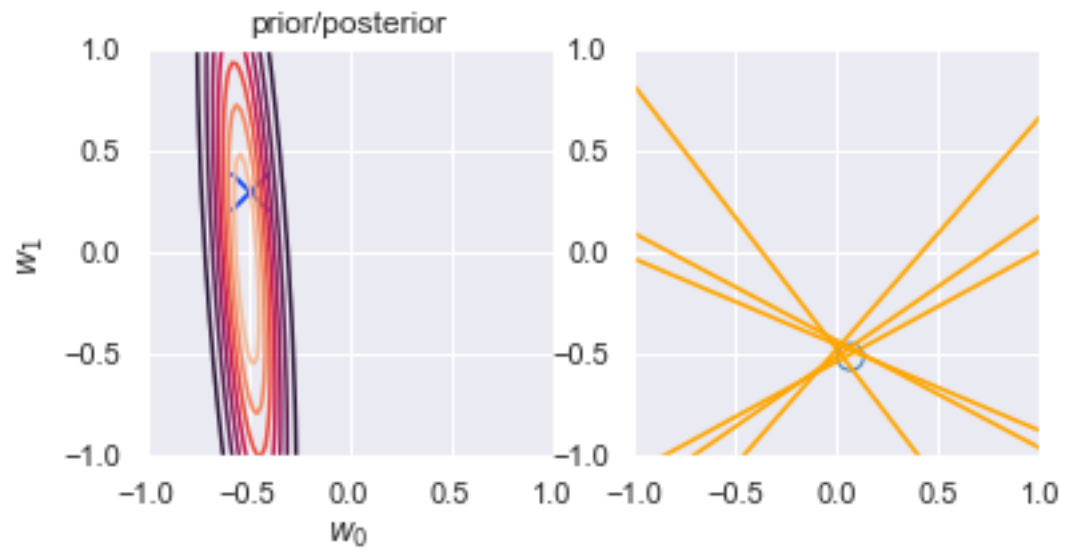
```

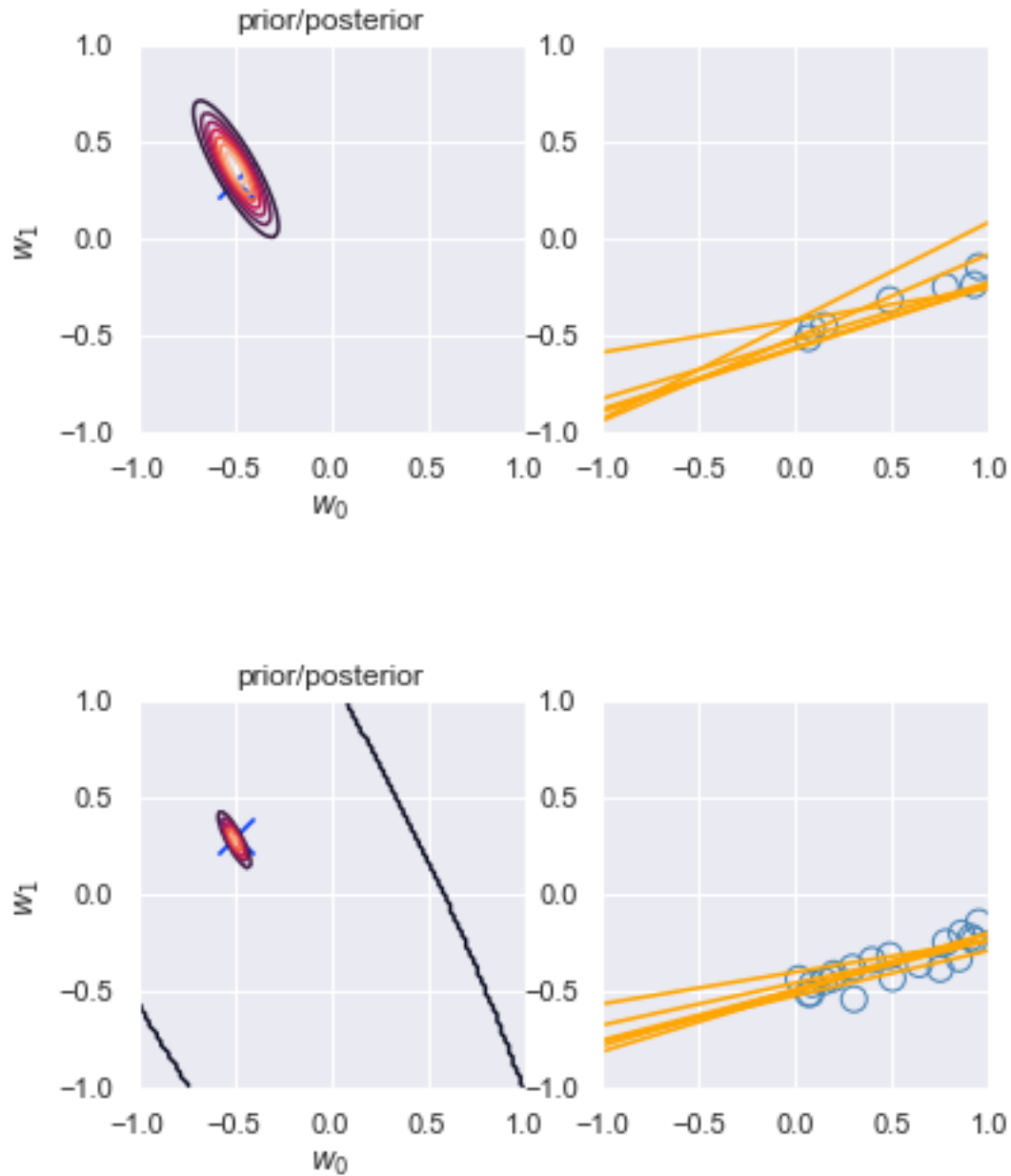
plt.scatter(-0.5, 0.3, s=200, marker="x")
plt.contour(w0, w1, multivariate_normal.pdf(w, mean=w_mean, cov=w_cov))
plt.gca().set_aspect('equal')
plt.xlabel("$w_0$")
plt.ylabel("$w_1$")
plt.title("prior/posterior")

plt.subplot(1, 2, 2)
plt.scatter(xl_train[:end], yl_train[:end], s=100, facecolor="none",
↪edgecolor="steelblue", lw=1)
plt.plot(x, y_sample, c="orange")
plt.xlim(-1, 1)
plt.ylim(-1, 1)
plt.gca().set_aspect('equal', adjustable='box')
plt.show()

```







1.4.3 2.3) Predictive distribution

`sample` takes `PHI_train` (ndarray $N \times (M+1)$), `y_train` (ndarray $N \times 1$), `alpha` (scalar), `beta` (scalar), and `PHI_test` as parameters and returns `y` (ndarray $N_{\text{test}} \times 1$ prediction means) and `y_std` (ndarray $N_{\text{test}} \times 1$ prediction deviations)

```
[ ]: def sample(PHI_train, y_train, alpha, beta, PHI_test):
    mean, covariance = bayessian_regression_fit(PHI_train, y_train, alpha,
    ↪beta)
```

```

N = len(PHI_test)

y = [np.inner(mean, PHI_test[n]) for n in range(N)]

y_std = [np.sqrt((1/beta) + PHI_test[n].T @ covariance @ PHI_test[n]) for n
↪in range(N)]

return np.array(y), np.array(y_std)

```

```

[ ]: alpha = 1e-3
beta = 2
x_train, y_train, x_test, y_test = generate_data(25)

basis = create_radial(np.linspace(0, 1, 9), 0.1)

M = 8

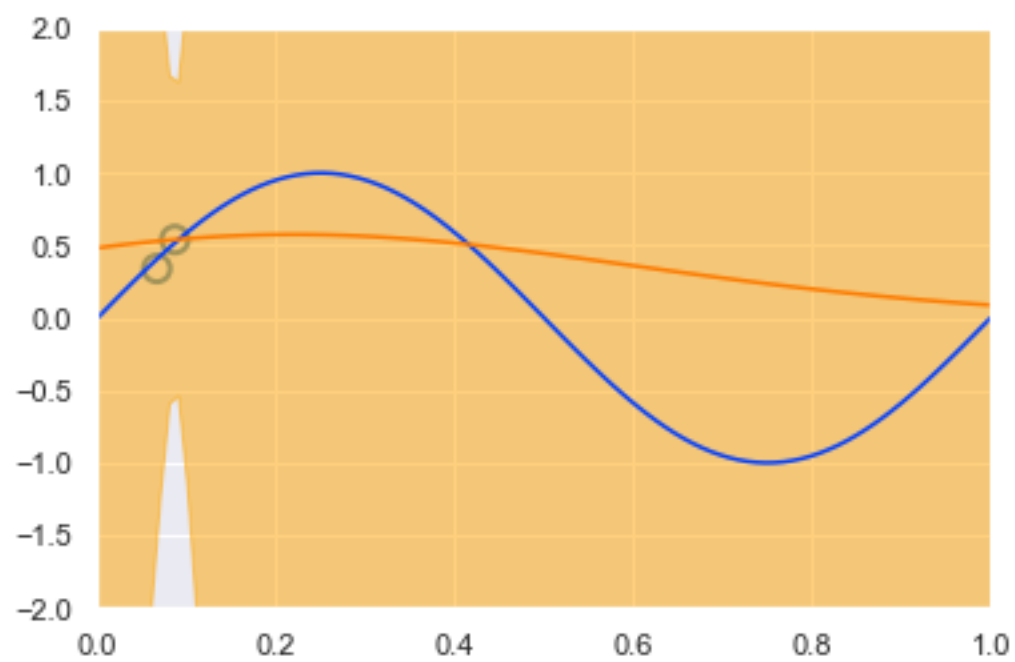
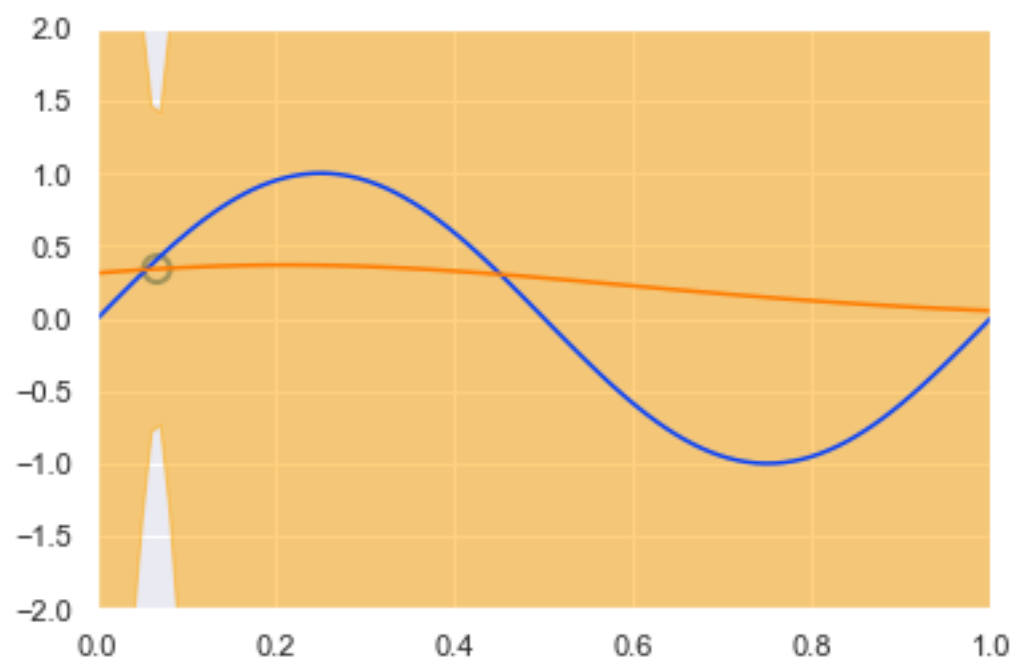
PHI_train = np.array([[basis(x_train[q], i) for q in range(len(x_train))] for i
↪in range(M + 1)]).T
PHI_test = np.array([[basis(x_test[q], i) for q in range(len(x_test))] for i in
↪range(M + 1)]).T

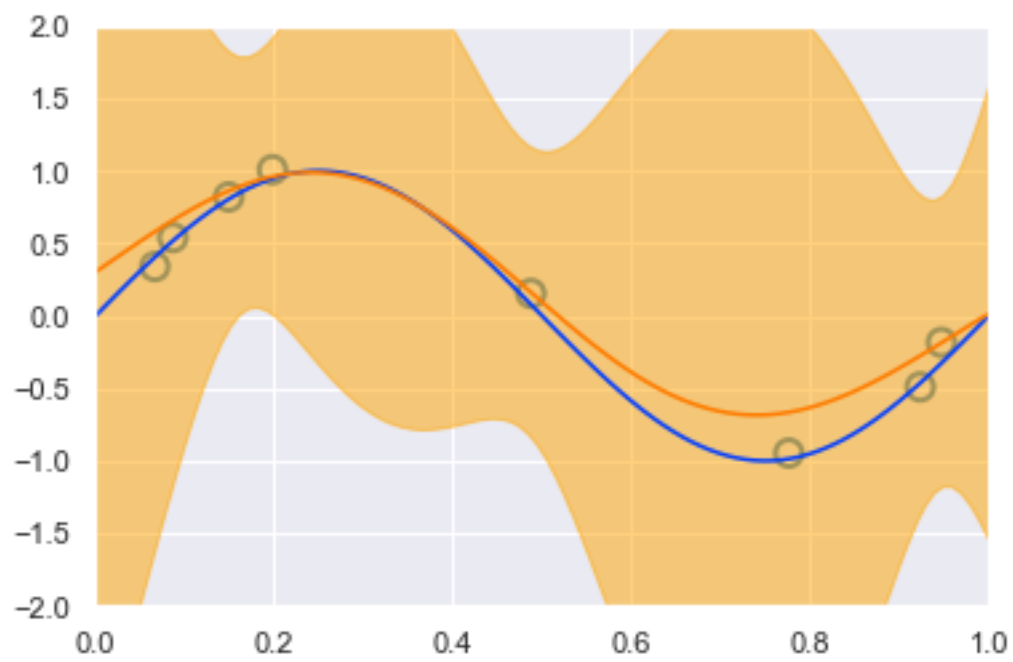
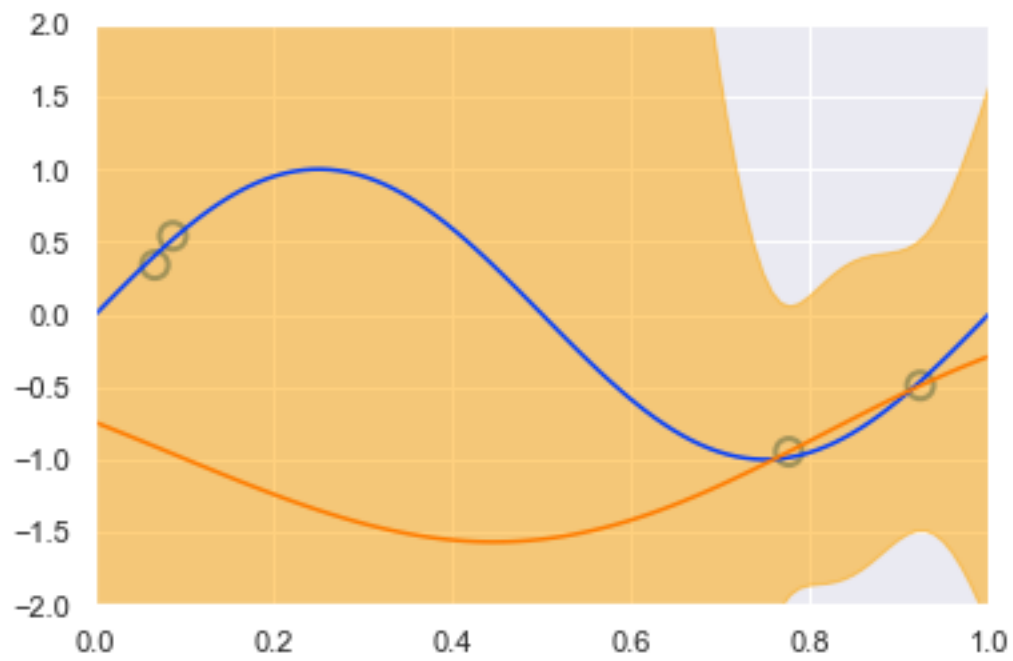
for begin, end in [[0, 1], [1, 2], [2, 4], [4, 8], [8, 25]]:

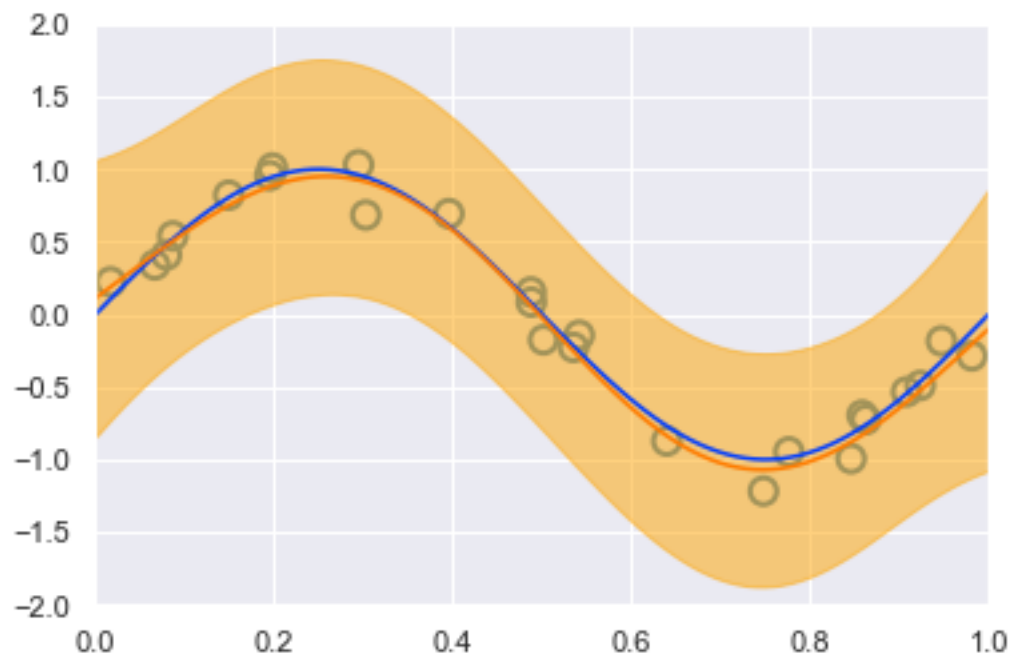
    y, y_std = sample(PHI_train[begin:end], y_train[begin:end], alpha, beta,
↪PHI_test)

    plt.scatter(x_train[:end], y_train[:end], s=100, facecolor="none",
↪edgecolor="steelblue", lw=2)
    plt.plot(x_test, y_test)
    plt.plot(x_test, y)
    plt.fill_between(x_test, y - y_std, y + y_std, color="orange", alpha=0.5)
    plt.xlim(0, 1)
    plt.ylim(-2, 2)
    plt.show()

```







[]: