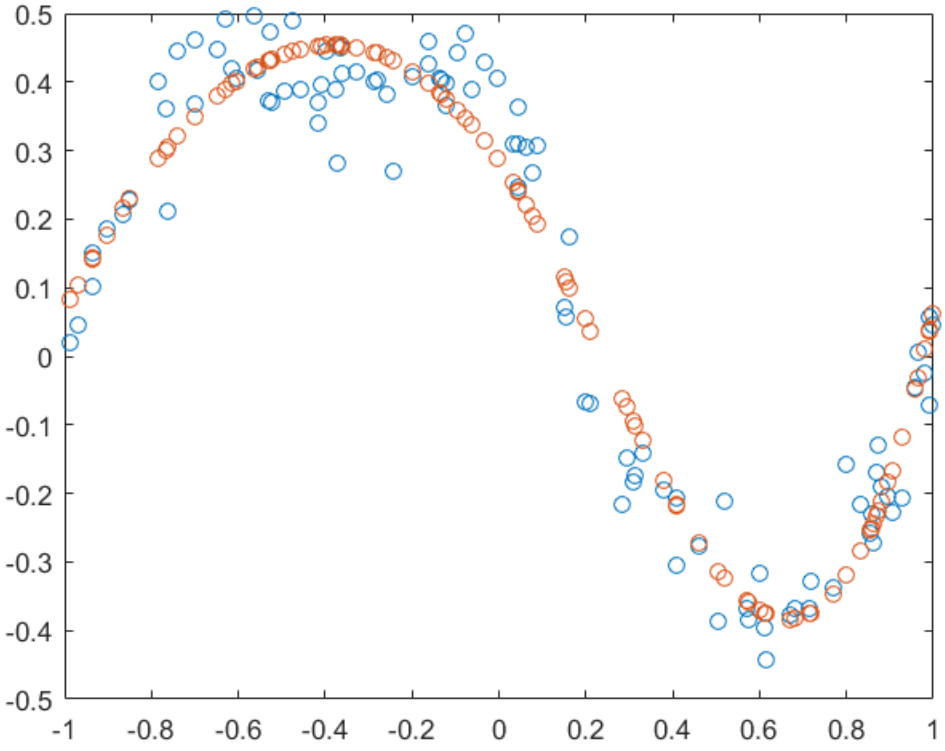
```
splinefit;
plot(t,y,'o');
zeros(100,4);
T1 = t(1 : 50);
T2 = t(51 : 100);

A = [ones(50,1) T1 T1.^2 T1.^3 zeros(50,4);
    zeros(50,4) ones(50,1) T2 T2.^2 T2.^3];

b = y;

C = [1 0 0 0 -1 0 0 0;
    0 1 0 0 0 -1 0 0];

d = [ 0; 0];

H = A'*A;
sol = [H C';C zeros(2,2)]\[A'*b ; d]
x = sol(1:8)

result = A*x;

hold on
plot(t,result,'o')
```

```
sol =

    0.2841
   -0.9025
   -1.2503
   -0.1317
    0.2841
   -0.9025
   -1.8160
    2.5004
    0.0551
    0.0660


x =

    0.2841
   -0.9025
   -1.2503
   -0.1317
    0.2841
   -0.9025
   -1.8160
    2.5004
```



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