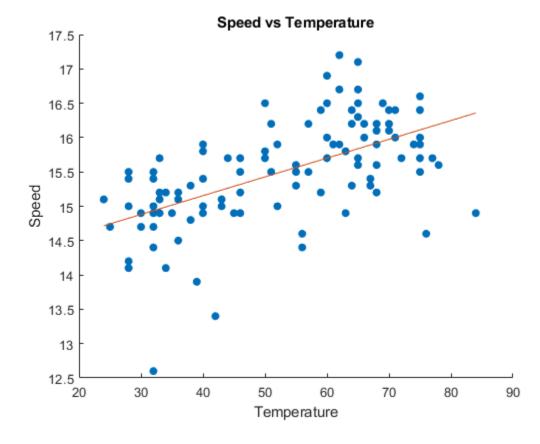
```
M = csvread('BicycleDataset.csv ');
fcn = @(b,x) b(1).*x./(b(2)+x);
x = M(1:113, 2);
y = M(1:113, 1);

hold on
scatter(x, y, 'filled')
title('Speed vs Temperature')
xlabel('Temperature')
ylabel('Speed')

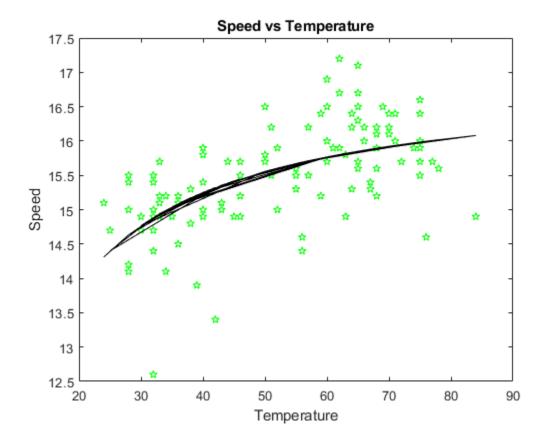
%Construct the normal matrix to fit a line to the data.
%Create a plot of the data and your fit on the same graph.
A = [ones(size(x)) x];
yfit = A*((A'*A)\(A'*y));
plot(x,yfit)
```



%Construct the normal matrix to fit a parabola to the data B0 = [50; 50]; B = fminsearch(@(b) norm(y - fcn(b,x)), B0); s = fcn(B,x); figure

```
plot(x, y, 'pg')
title('Speed vs Temperature')
xlabel('Temperature')
ylabel('Speed')

hold on
plot(x,s,'k')
```



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