```
feature_name = {'含沙量', '淤泥含量', '粘土含量', '有机物', 'PH 值'};
file_path = 'D:\文件\大作业\数据.xlsx';
sheet = 'Sheet1';
data = readtable(file_path, 'Sheet', sheet, 'Range', 'A1:E20');
data.Properties.VariableNames = feature_name;
X = data{:, 1:end-1};
Y =selected_data(:, 5);
X = table2array(data(:, 1:end-1));
%拟合
model = fitlm(X, Y);
disp(model);
coeffTable = model.Coefficients;
disp(coeffTable);
运行结果:
线性回归模型:
    y \sim 1 + x1 + x2 + x3 + x4
估计系数:
```

(Intercept)	-57.908	92.957	-0.62296	0.54267
x1	0.64175	0.92701	0.69228	0.49934
x2	0.63226	0.91889	0.68807	0.50191
x3	0.67567	0.9633	0.70141	0.49378
x4	0.10541	0.19555	0.53904	0.59777

Estimate

SE

tStat

pValue

观测值数目:20,误差自由度:15

均方根误差: 0.571

R 方: 0.0396,调整 R 方 -0.217

F 统计量(常量模型): 0.155, p 值 = 0.958

Estimate	SE	tStat	pValue
-57.908	92.957	-0.62296	0.54267
0.64175	0.92701	0.69228	0.49934
0.63226	0.91889	0.68807	0.50191
0.67567	0.9633	0.70141	0.49378
0.10541	0.19555	0.53904	0.59777
	-57.908 0.64175 0.63226 0.67567	-57.908 92.957 0.64175 0.92701 0.63226 0.91889 0.67567 0.9633	-57.908 92.957 -0.62296 0.64175 0.92701 0.69228 0.63226 0.91889 0.68807 0.67567 0.9633 0.70141