```
function [a0,a1]= linear_regression_model(x,y)
% XA = Y
n = length(x);
X = zeros(n,2);

X(:,1)= 1;
X(:,2)= x;

Y= y';
% X'XA = X'Y
X_trans= X';
% A = inv(X'X)X'Y
A = inv(X_trans*X)*X_trans*Y;
a0 = A(1);
a1 = A(2);
end
```

Published with MATLAB® R2021a