Linear Regression Code

# Perform linear regression.

(slope, intercept, r\_value, p\_value, std\_err) = linregress(x\_values, y\_values)

# Calculate the regression line "y values" from the slope and intercept.

regress\_values = x\_values \* slope + intercept

# Get the equation of the line.

line\_eq = "y = " + str(round(slope,2)) + "x + " + str(round(intercept,2))

# Create a scatter plot of the x and y values.

plt.scatter(x\_values,y\_values)

# Plot the regression line with the x-values and the y coordinates based on the intercept and slope.

plt.plot(x\_values,regress\_values,"r")

# Annotate the text for the line equation and add its coordinates.

plt.annotate(line\_eq, (10,40), fontsize=15, color="red")

plt.xlabel('Latitude')

plt.ylabel('Temp')

plt.show()