1. Wages Dataset
   1. A graph of a number of black dots

      AI-generated content may be incorrect. Based on the scatterplot, a quadratic model would be better to capture the relationship.
   2. The model summary showed that the intercept is 2.63808, the Age coefficient is 0.04717, the Education coefficient is 1.44101, and the r2 is 0.6187, while the adjusted r2 is 0.6088.
   3. The quadratic model did show a better fit than the linear model this is because of improved residuals, a higher r2 (0.8323), and an adjusted r2 (0.8257), and the high goodness of fit metrics.
   4. For someone with 16 years of education and different ages at 30, 50, and 70, the hourly wages for one would be $25.85, $31.53, and $26.56, respectively.
   5. With 16 years of education, the age of someone to attain the highest wage would be 50 years old.
2. Ann Arbor Dataset
   1. A graph with a line

      AI-generated content may be incorrect.A graph with a line going up

      AI-generated content may be incorrect.A graph with a line going up

      AI-generated content may be incorrect.A graph with a line and dots

      AI-generated content may be incorrect.The only variable that would benefit from log-transformation would be Square Footage, above is the adjusted graph.
   2. The rent for a 1,600 sqft, three bedroom, and two bedroom property is $1486.24.