Part (a). Means

Texture Perimeter

Benign [17.1157 76.96375]

Malignant [21.4498 114.53195]

Part (b). Variance

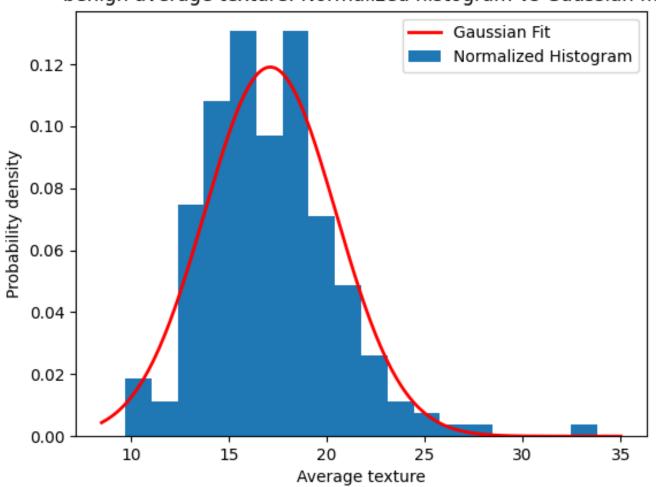
Texture Perimeter

Benign [11.27652514 127.96211401]

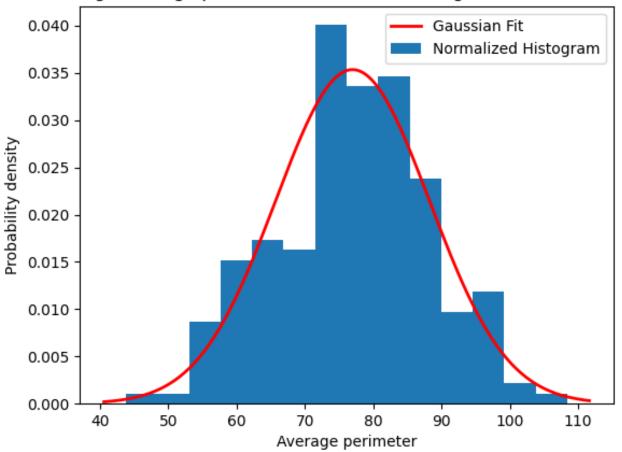
Malignant [13.89054569 472.34102382]

Part (c). Four Plots

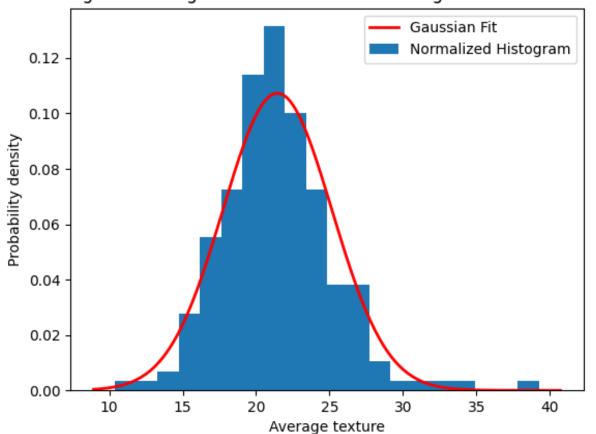
benign average texture: Normalized histogram vs Gaussian fit



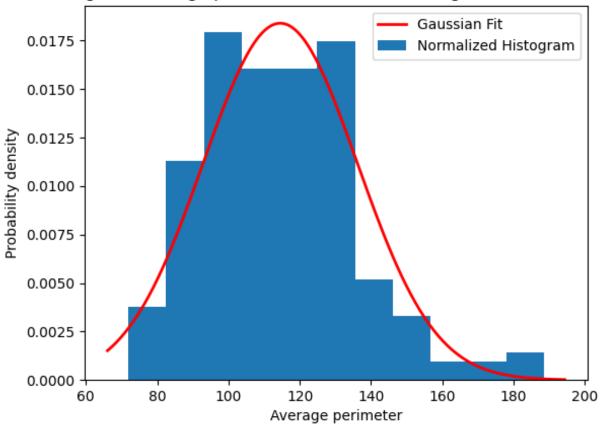
benign average perimeter: Normalized histogram vs Gaussian fit



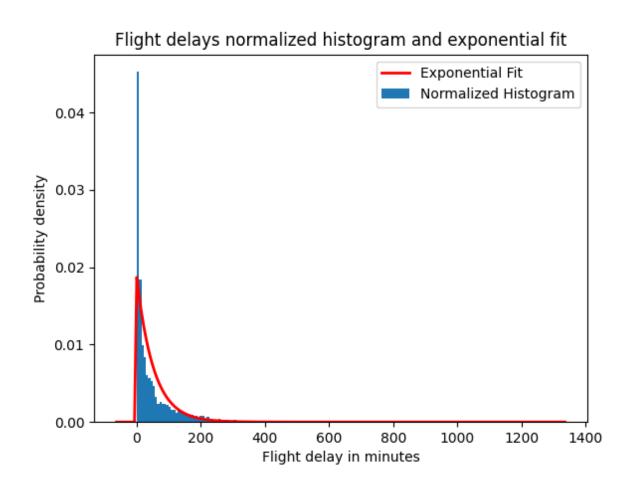
malignant average texture: Normalized histogram vs Gaussian fit



malignant average perimeter: Normalized histogram vs Gaussian fit



Part (d). Exponential histogram



Part (e). Probability, fraction, comment

Probability[Z > 60] = 0.32109077601786185

Fraction of flights delayed by more than 60 mins = $1205/4611 \sim 0.261$

Comment: This is an ok approximation – the percent error is about 22.8%, which is not very ideal, but I suppose it's not outrageous. The plot also generally fits the data, so it is not a terrible approximation.