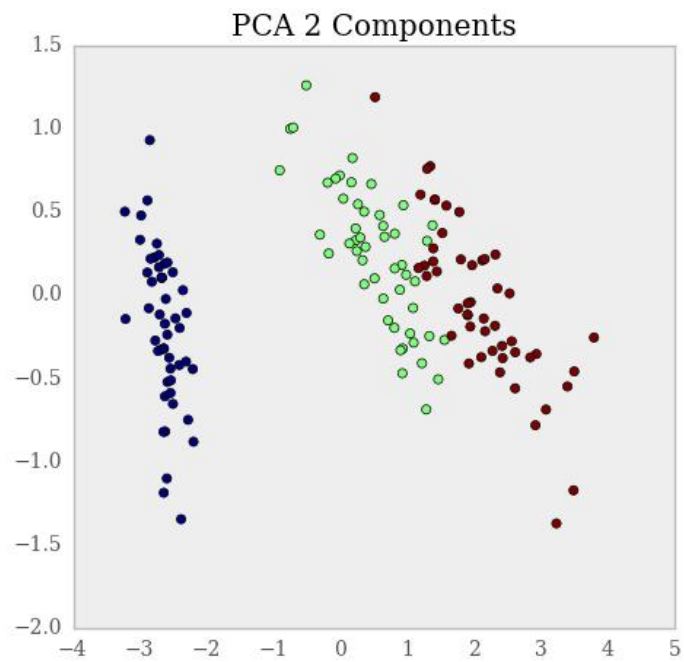
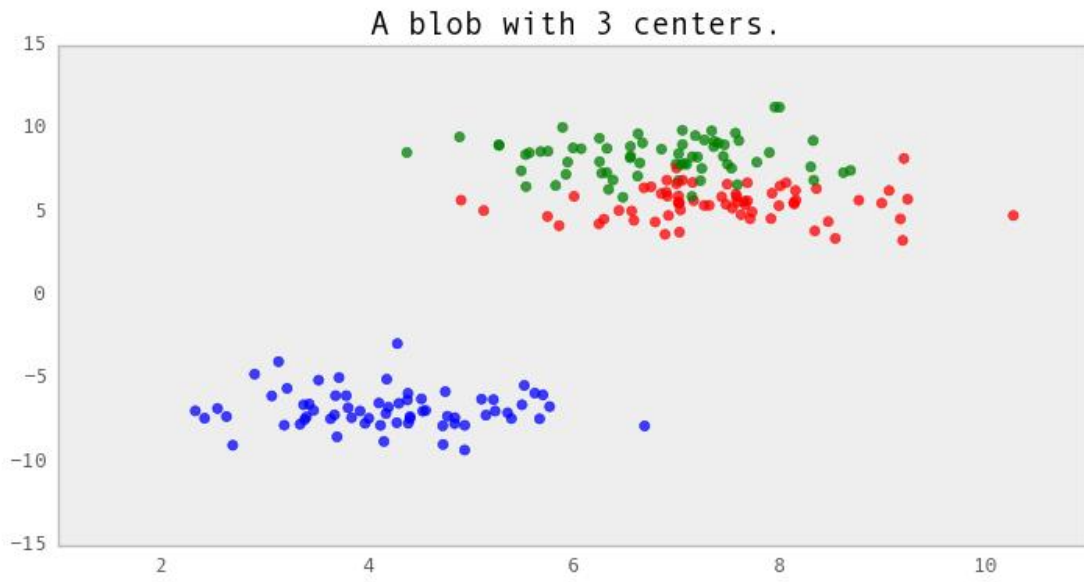
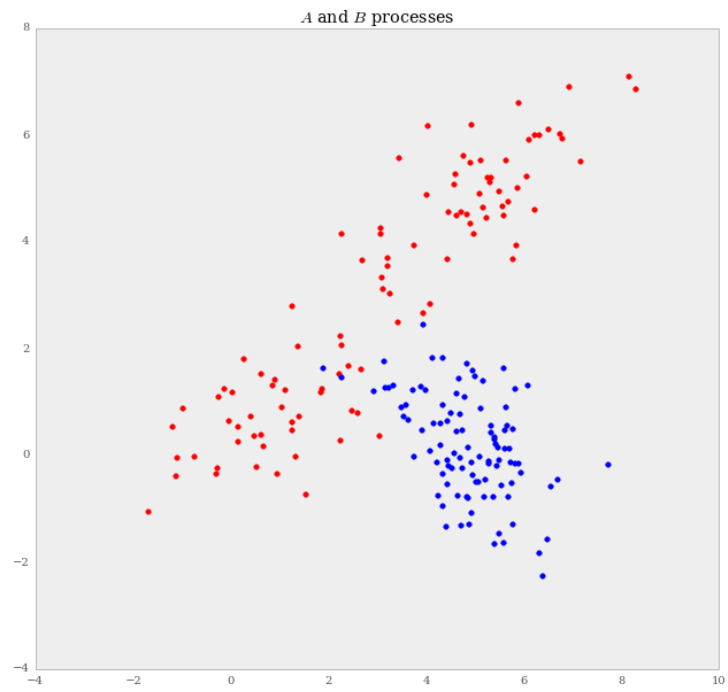
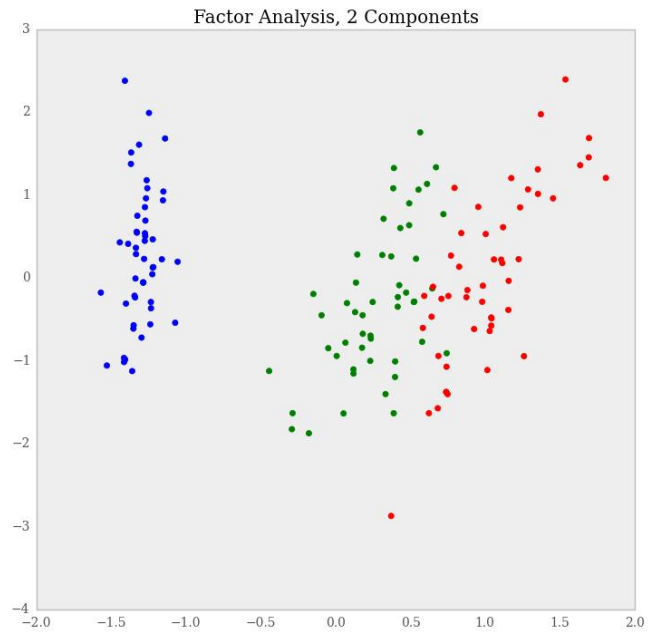
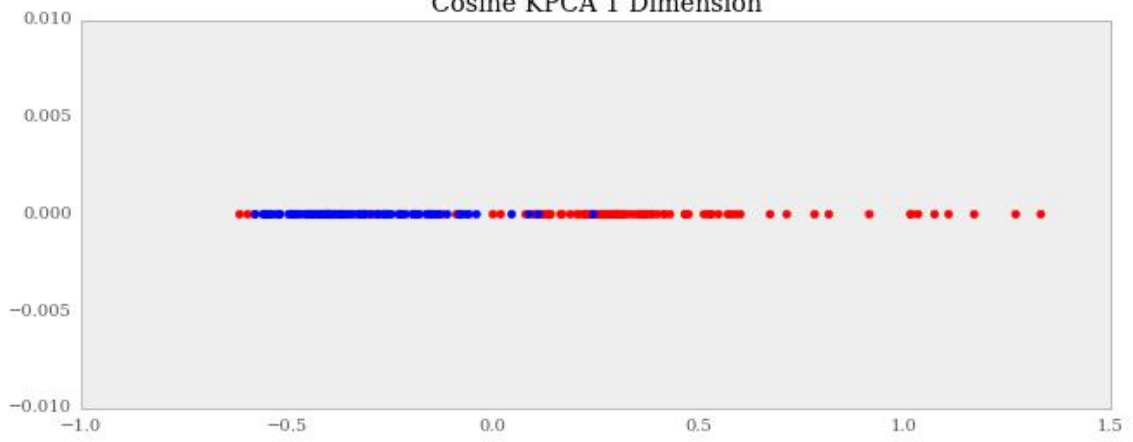


# Chapter 1

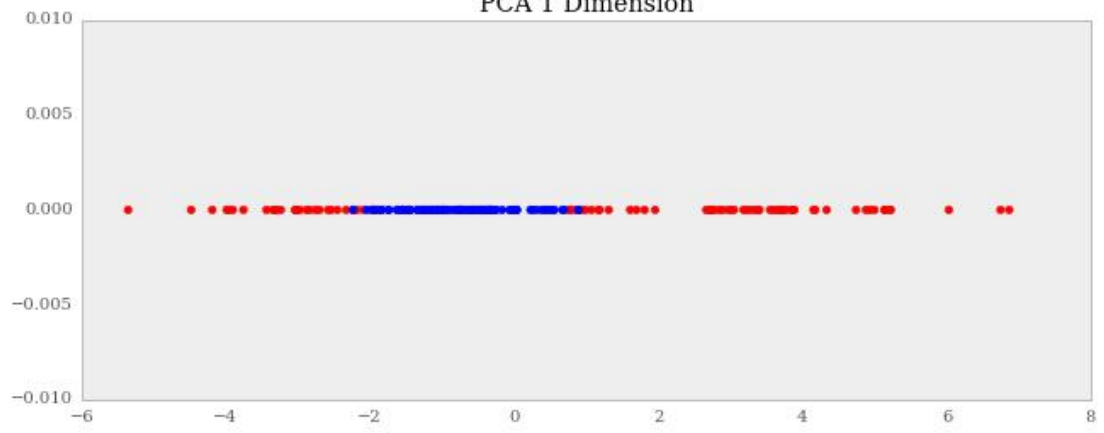




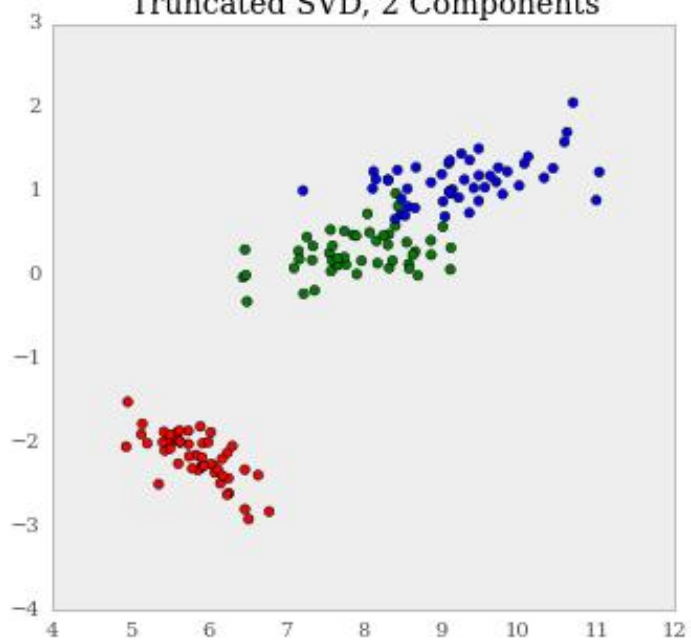
Cosine KPCA 1 Dimension



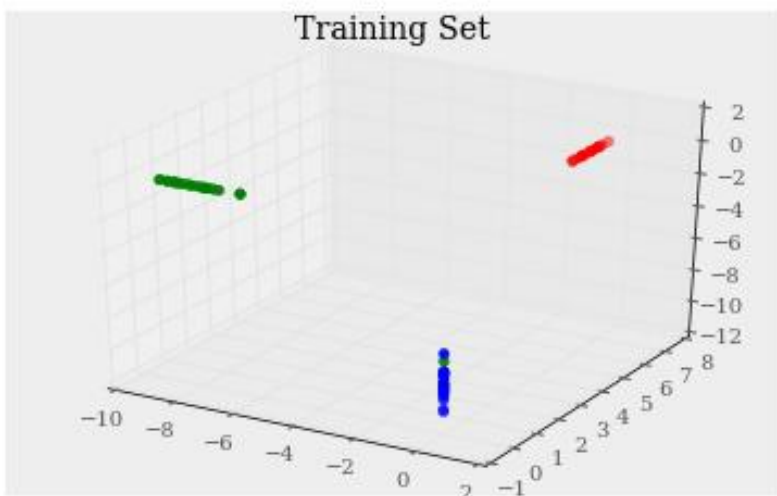
PCA 1 Dimension

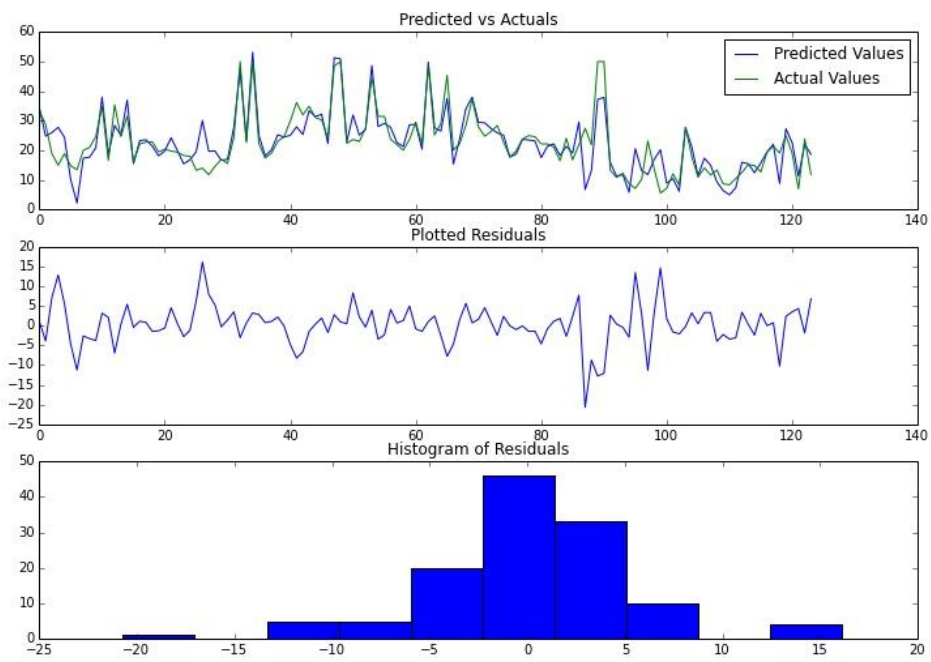
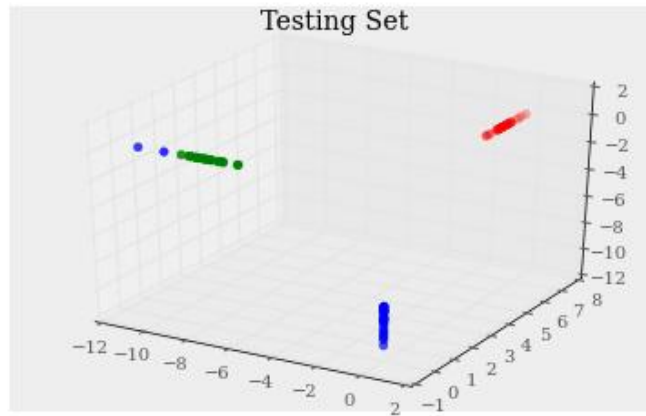


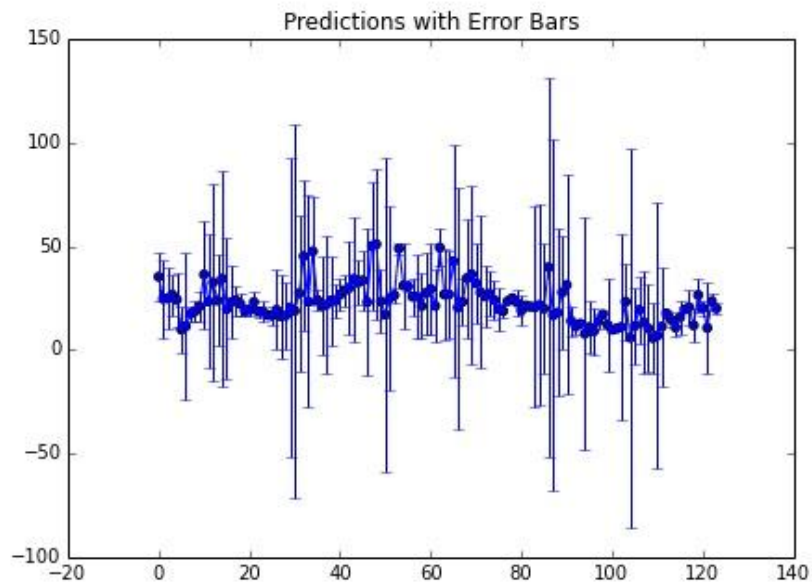
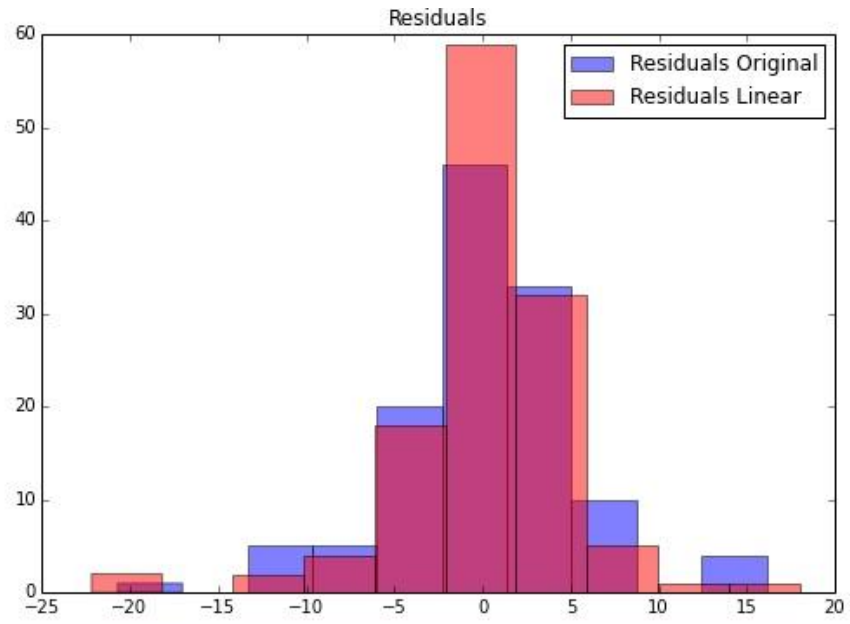
Truncated SVD, 2 Components

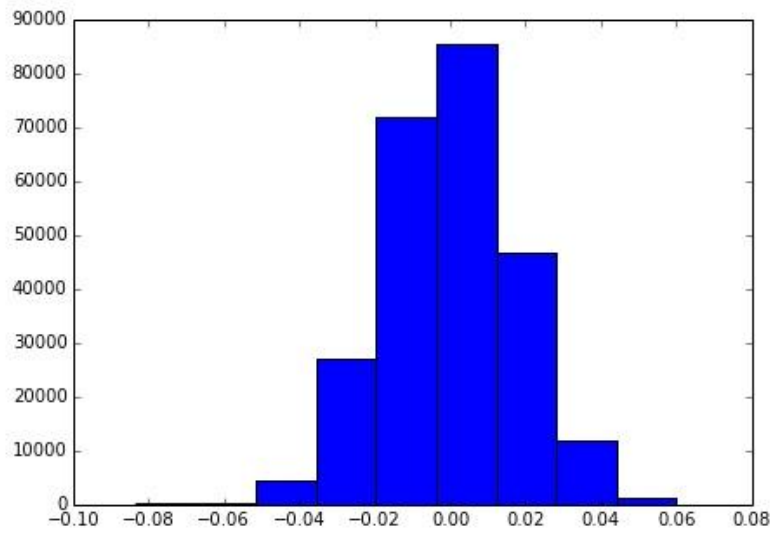


Training Set

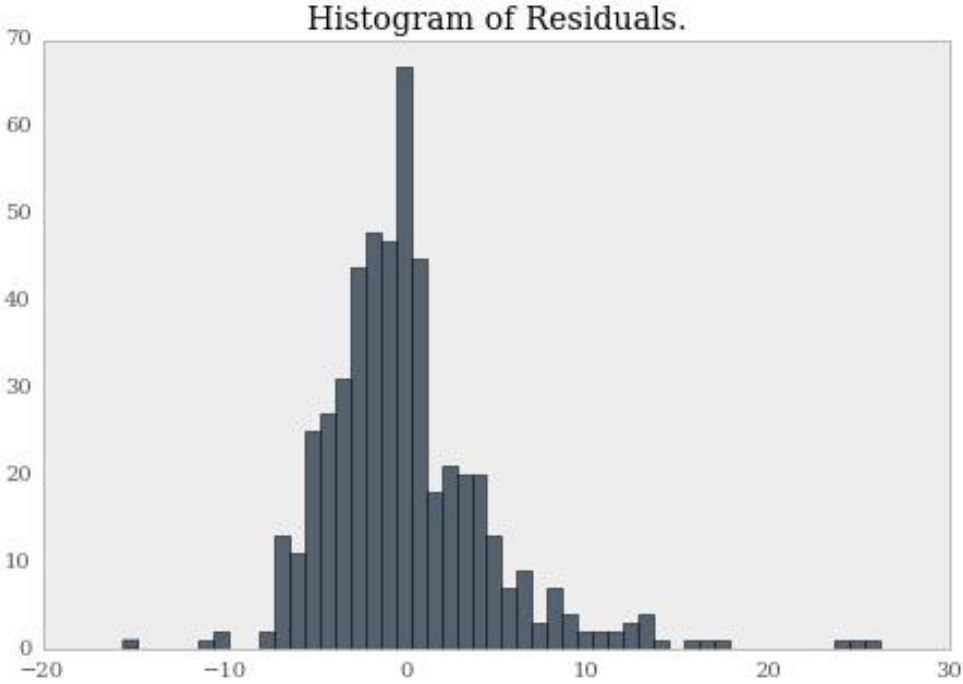






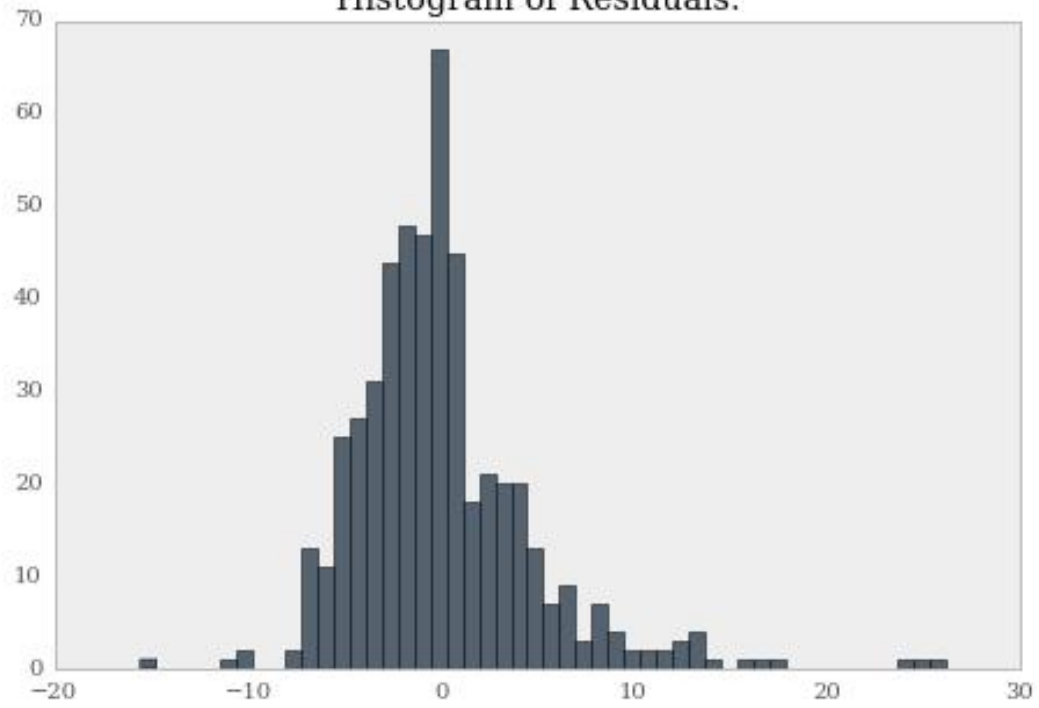


# Chapter 2

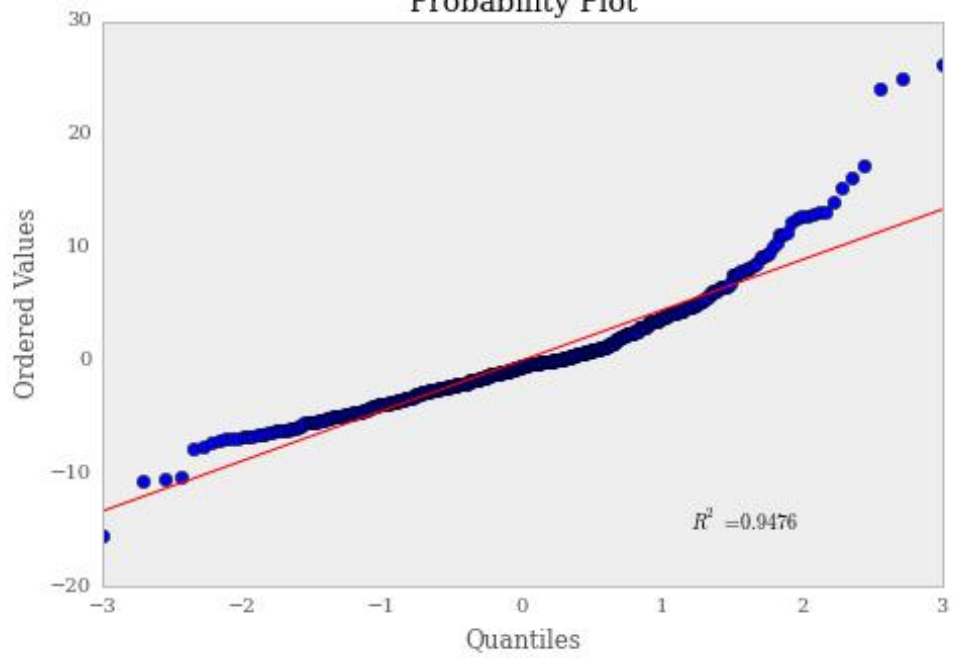


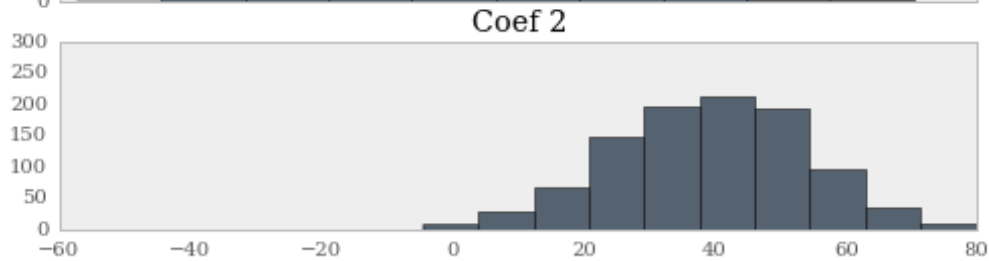
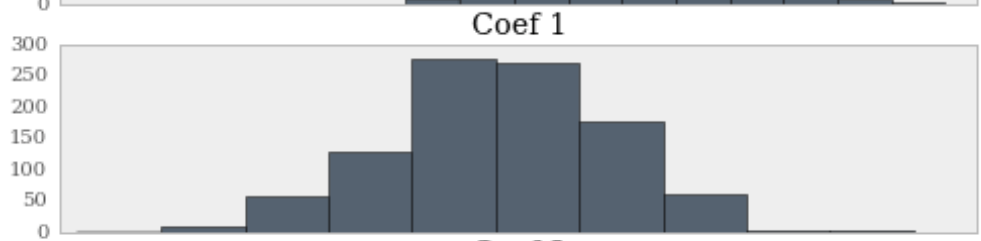
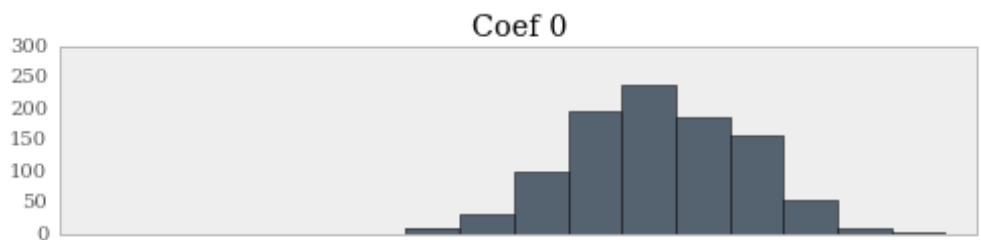
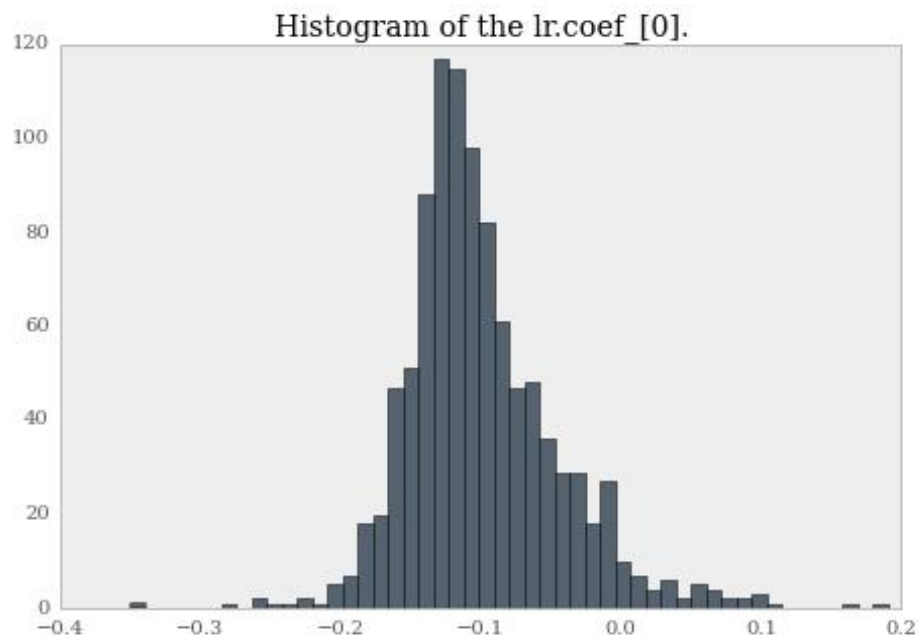


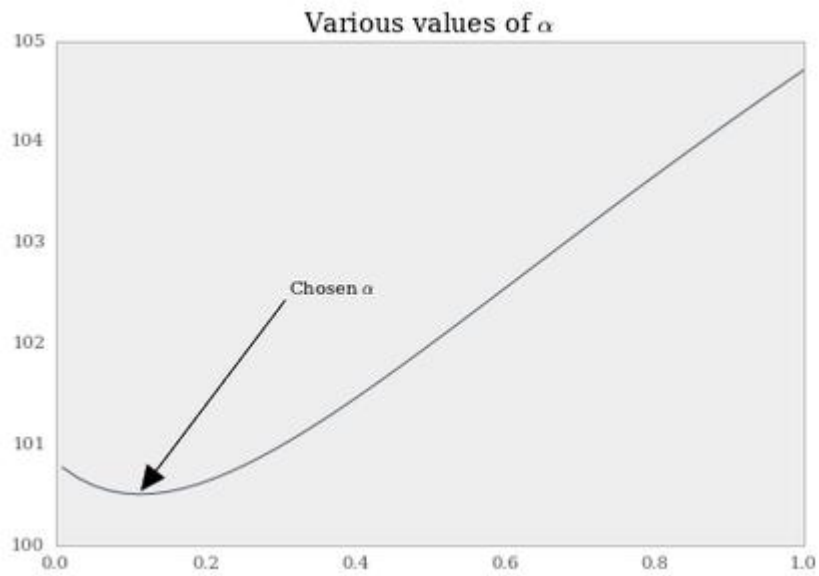
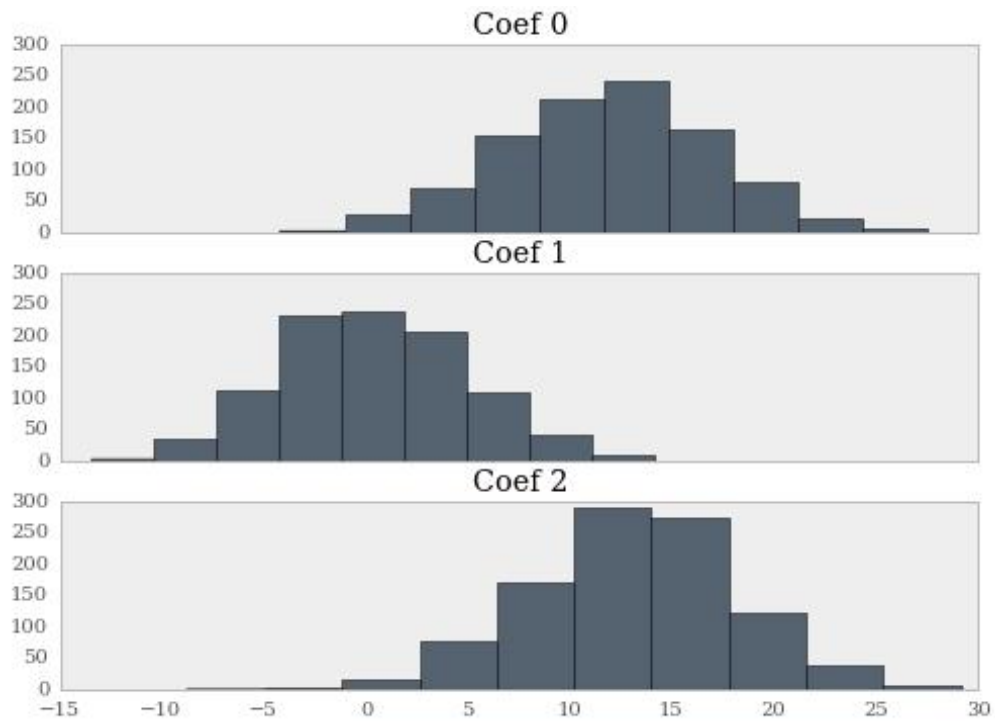
Histogram of Residuals.



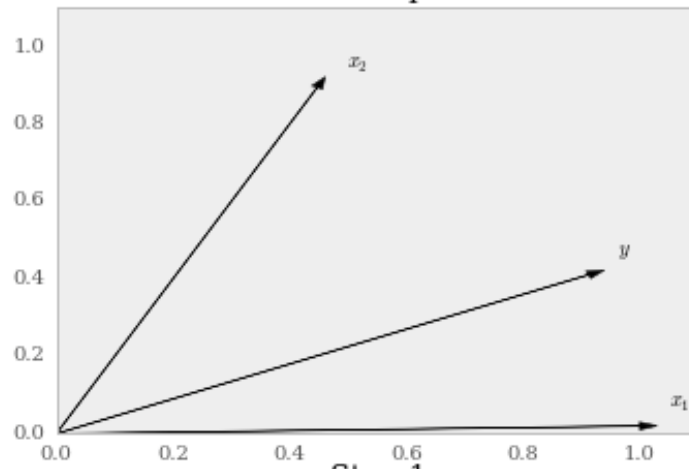
Probability Plot



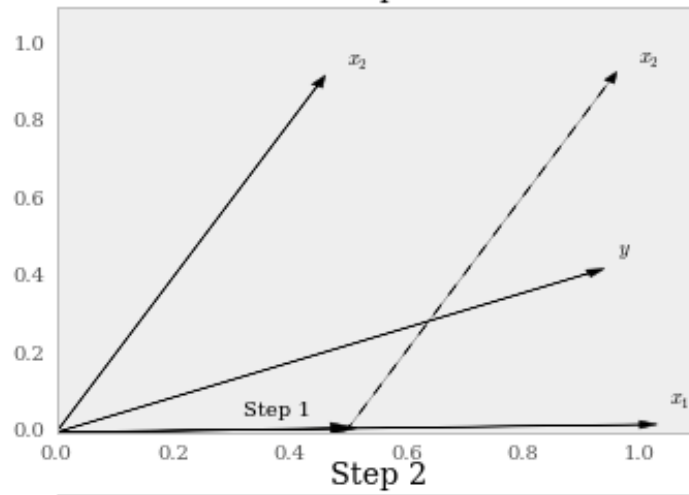




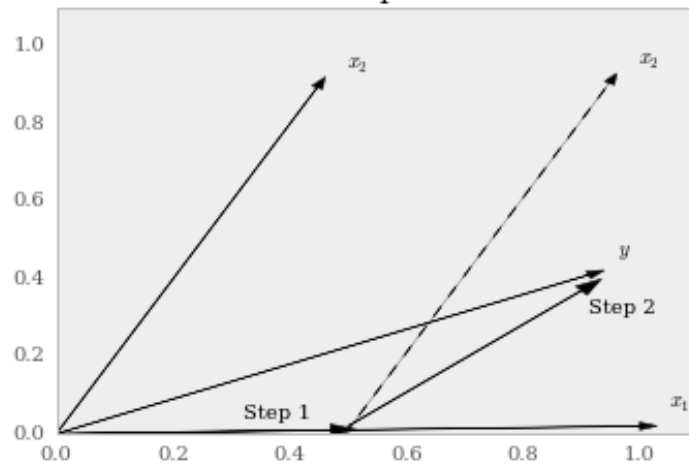
No steps



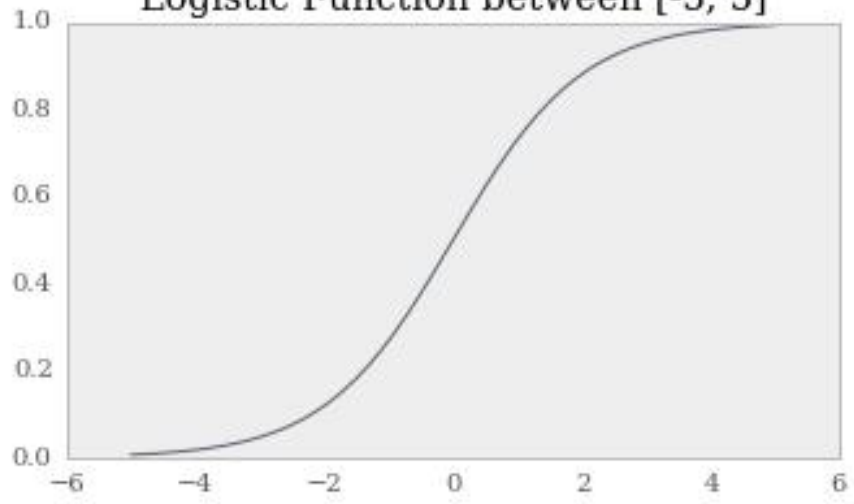
Step 1



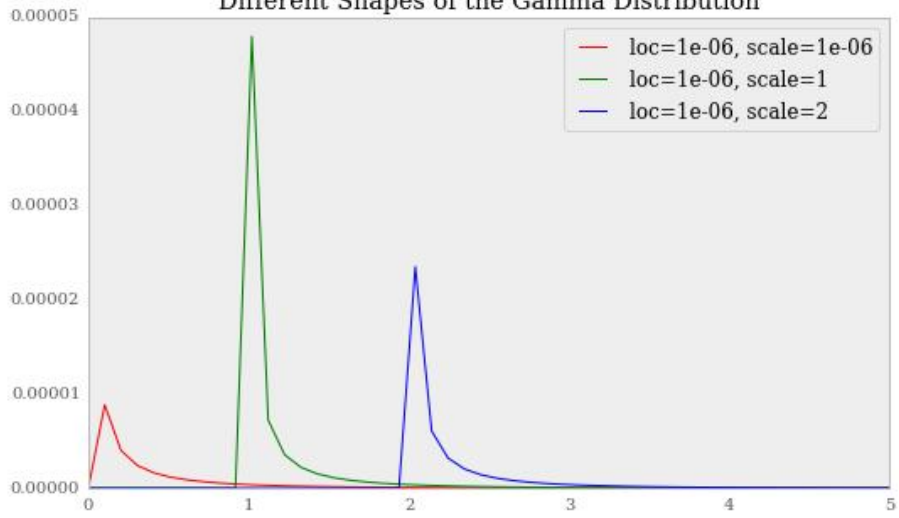
Step 2



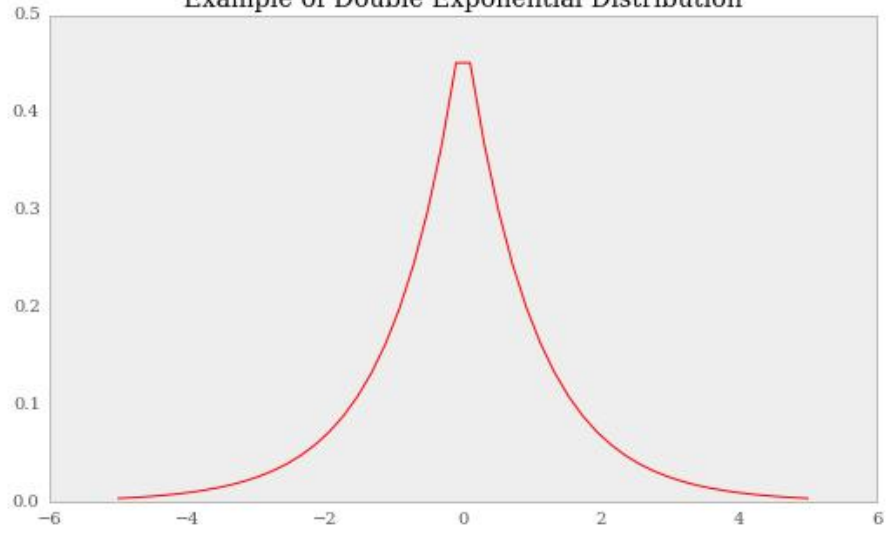
Logistic Function between [-5, 5]



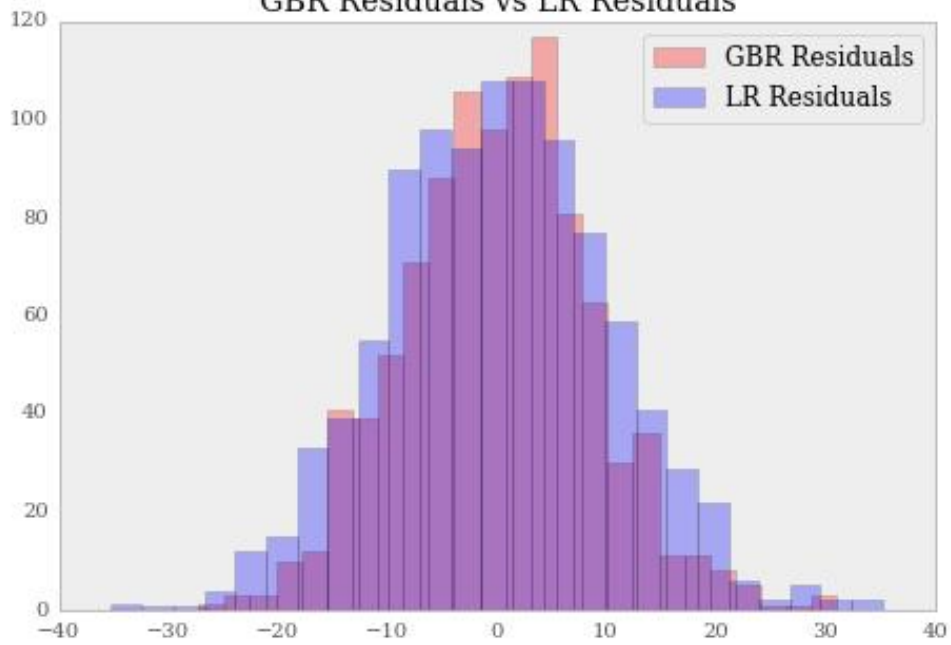
Different Shapes of the Gamma Distribution

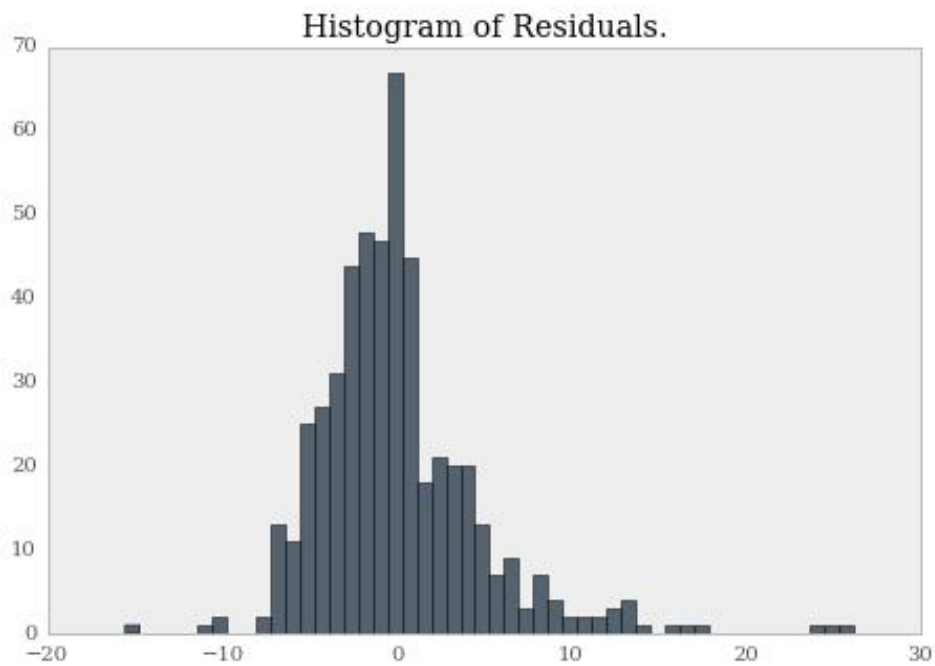
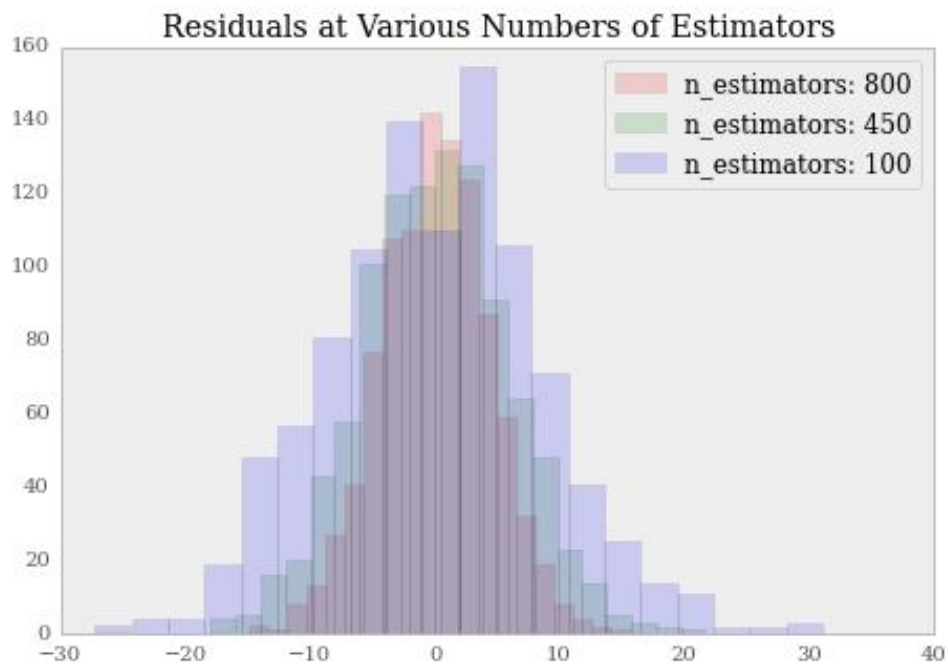


Example of Double Exponential Distribution

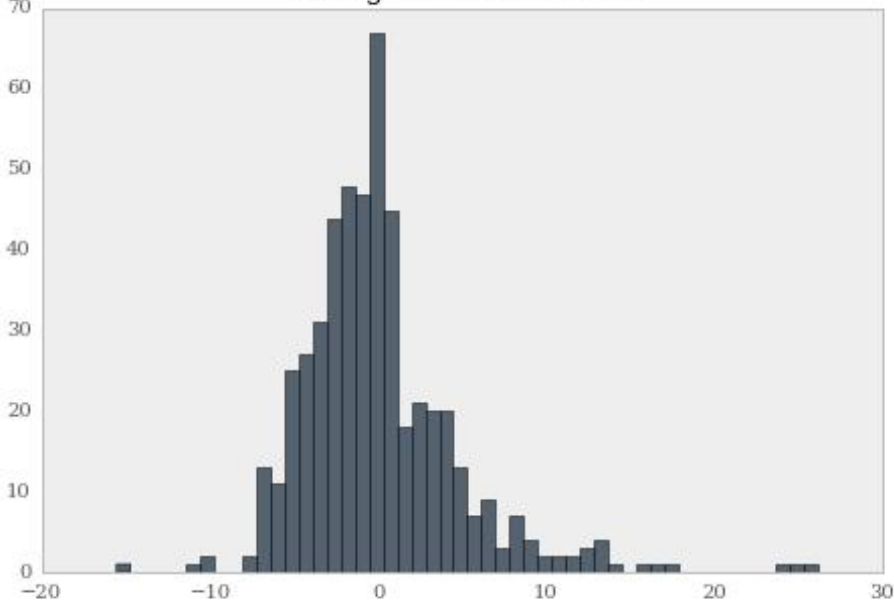


GBR Residuals vs LR Residuals

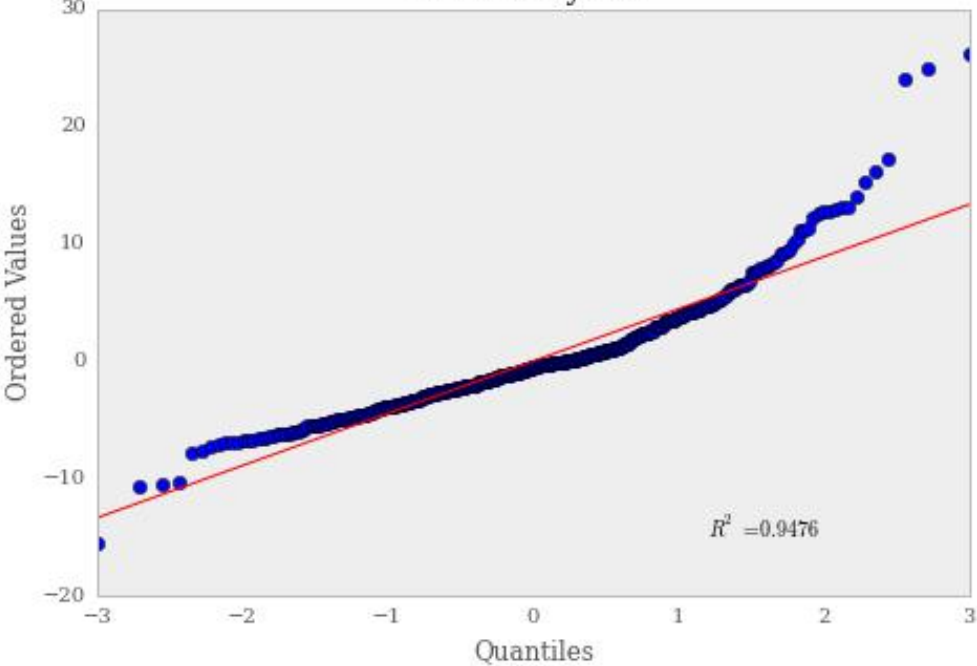




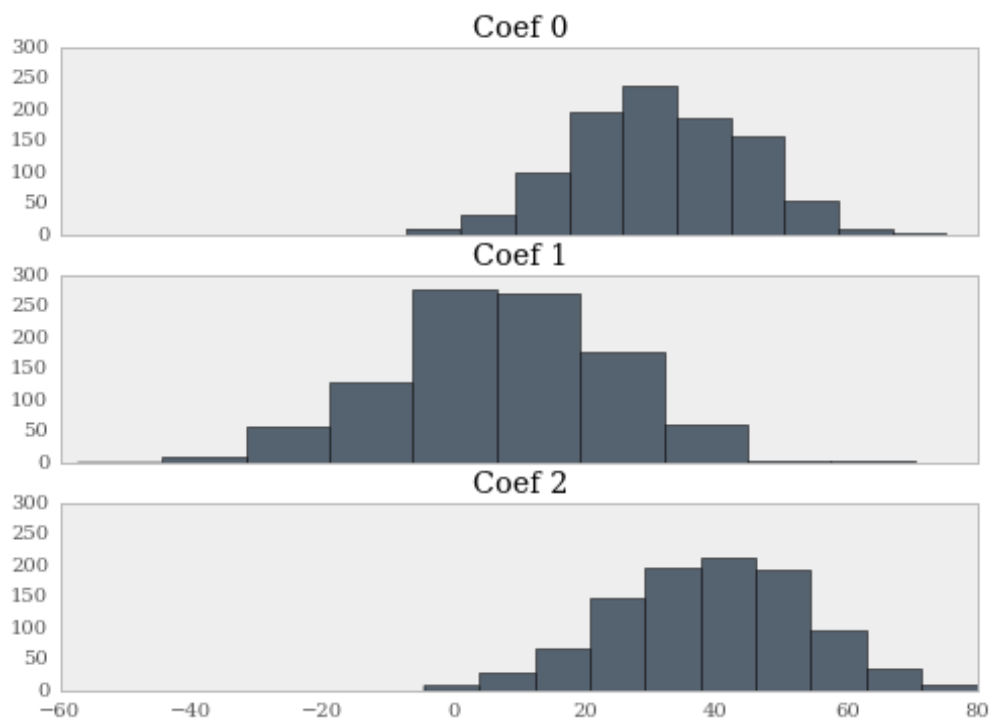
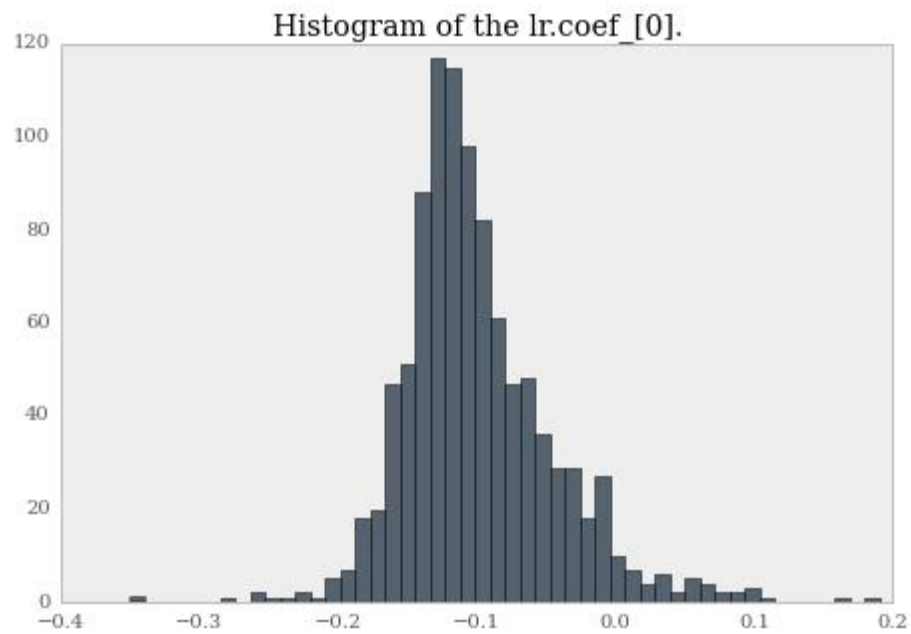
Histogram of Residuals.

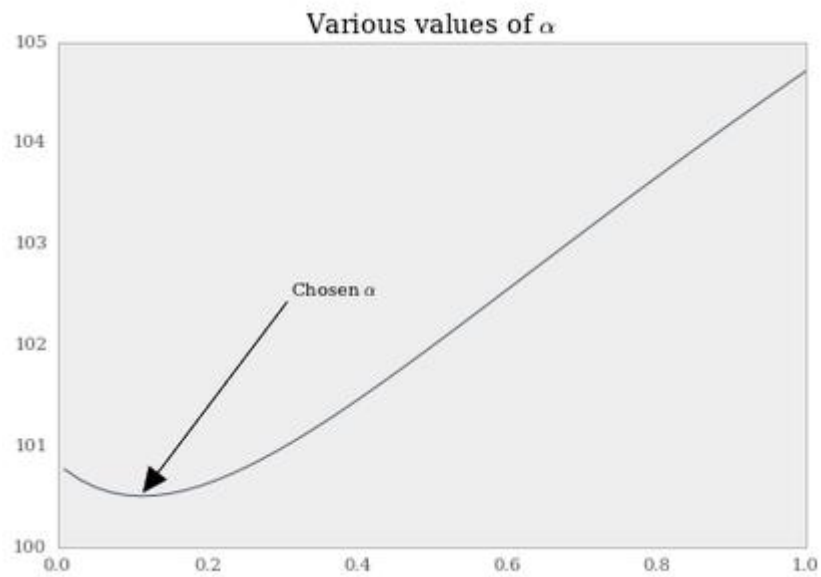
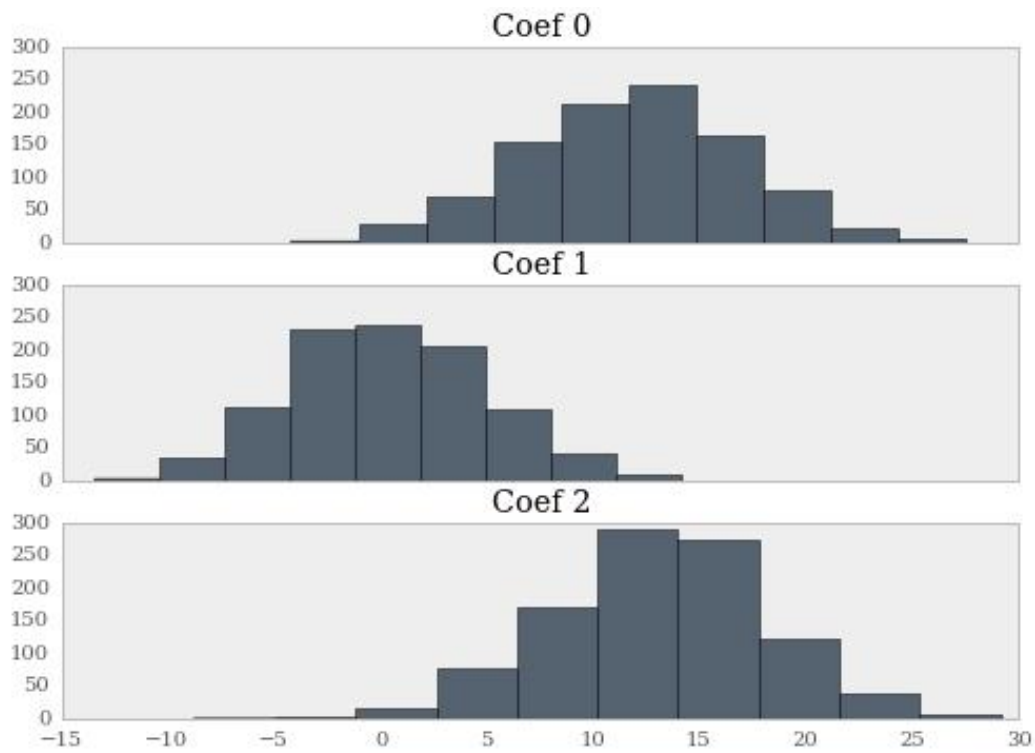


Probability Plot

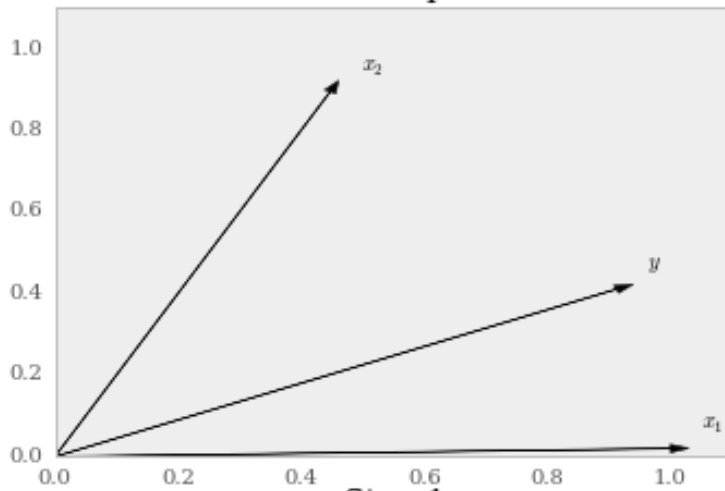




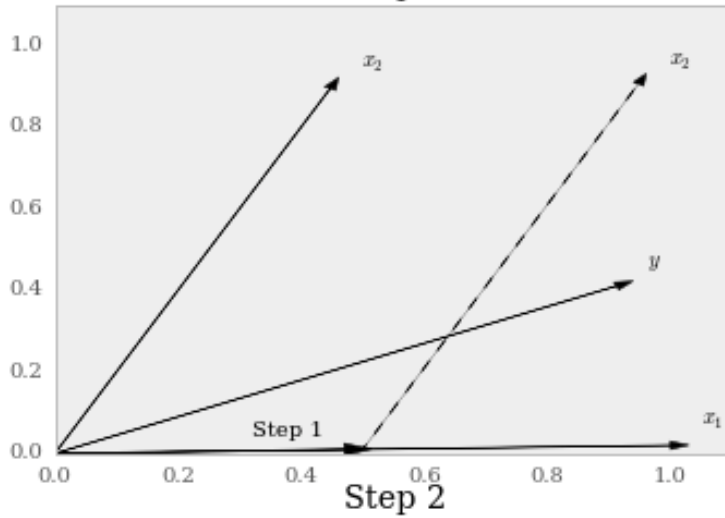




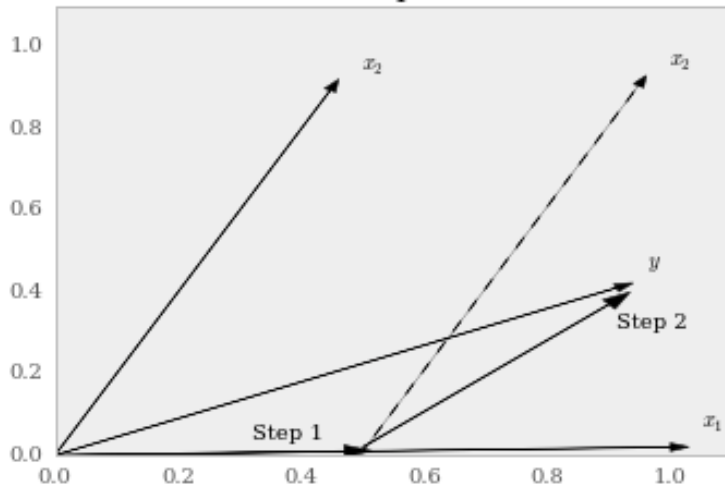
No steps

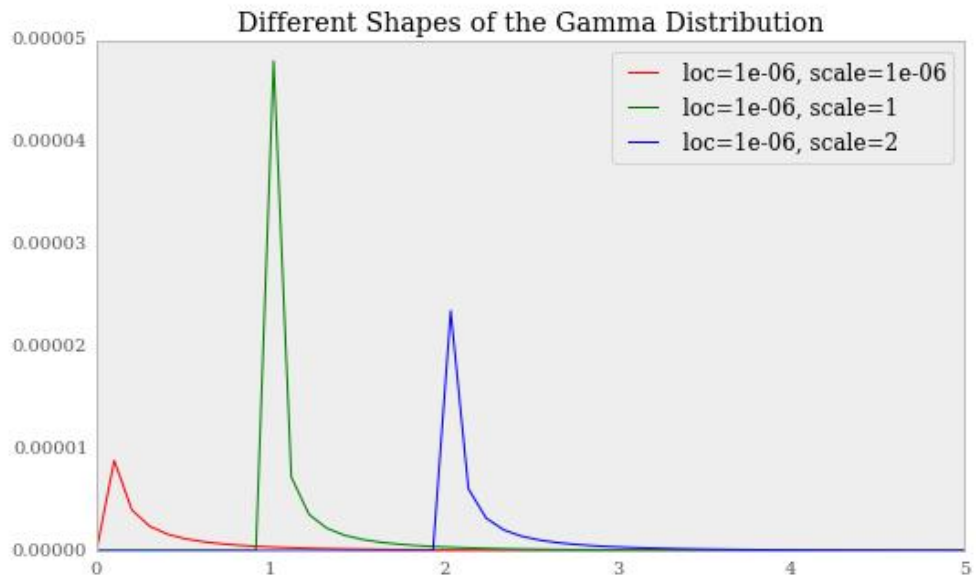
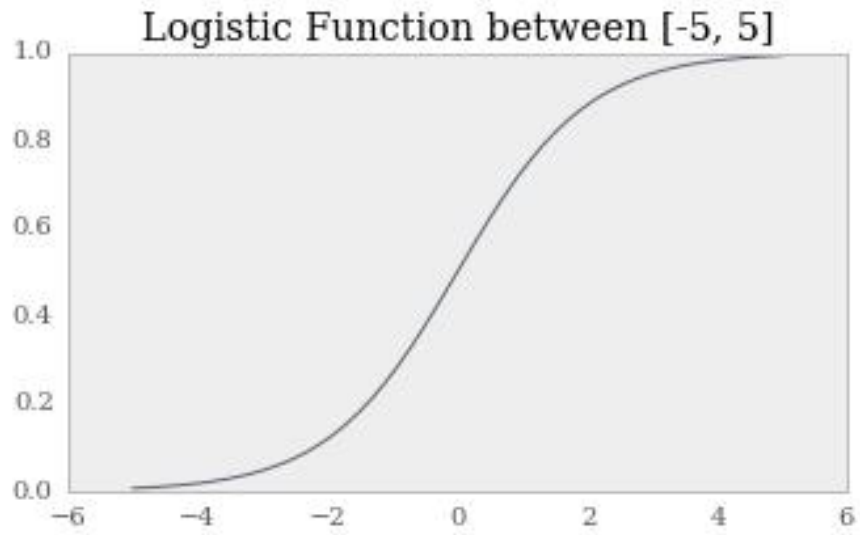


Step 1

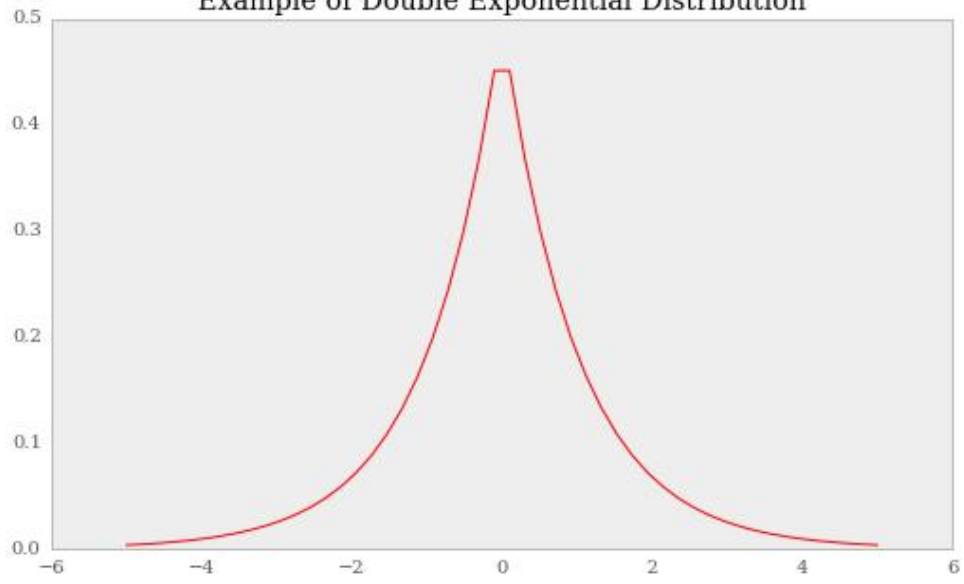


Step 2

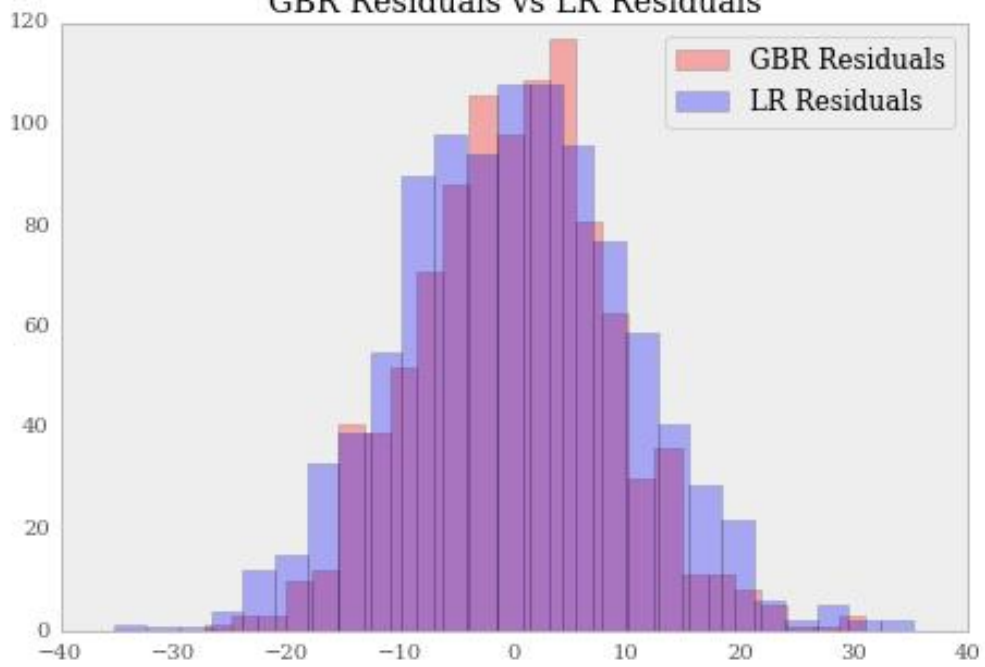




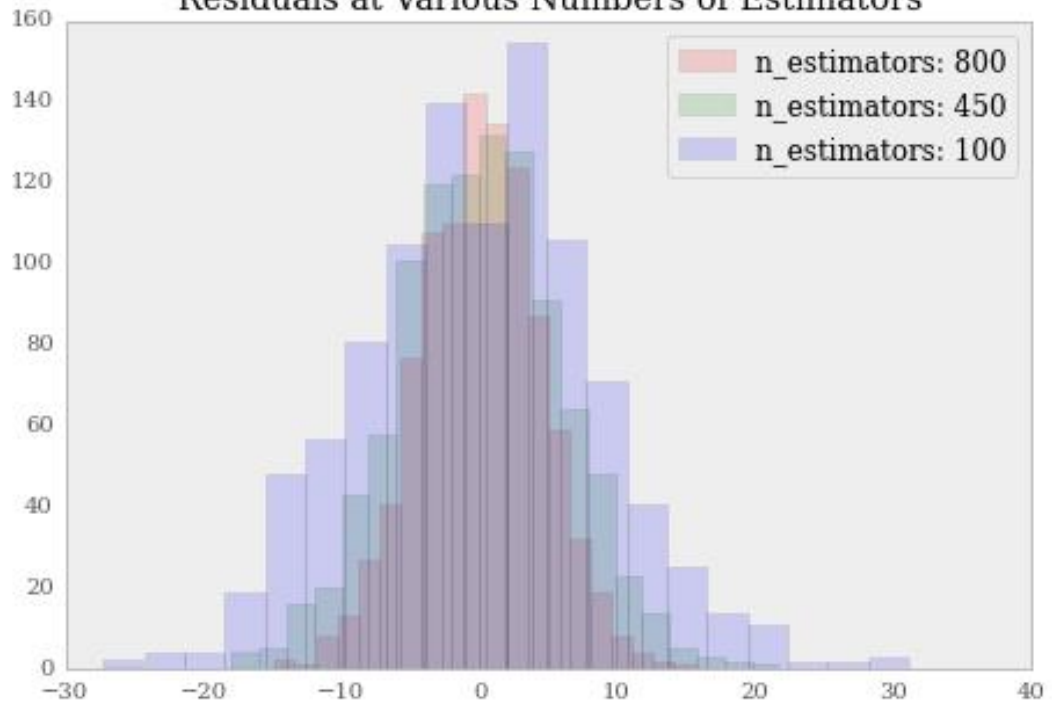
Example of Double Exponential Distribution



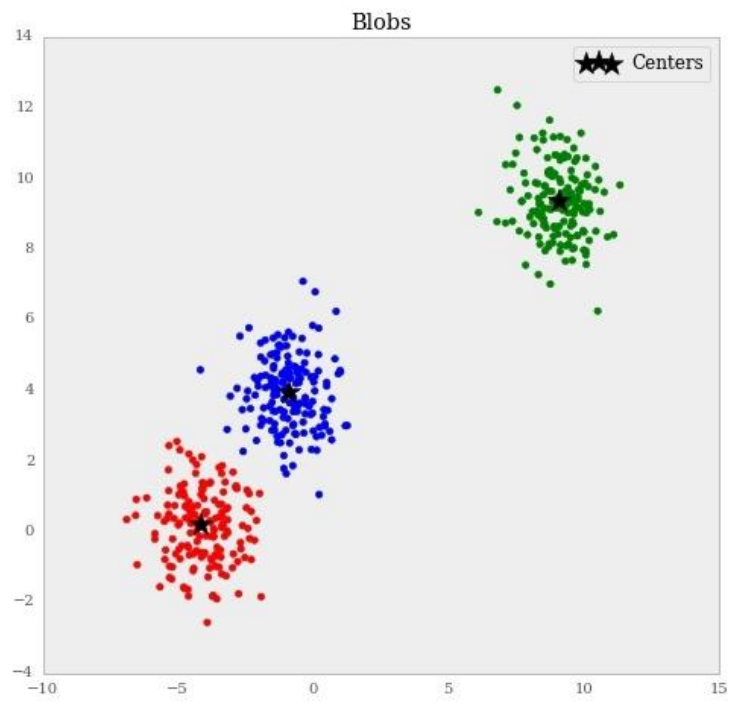
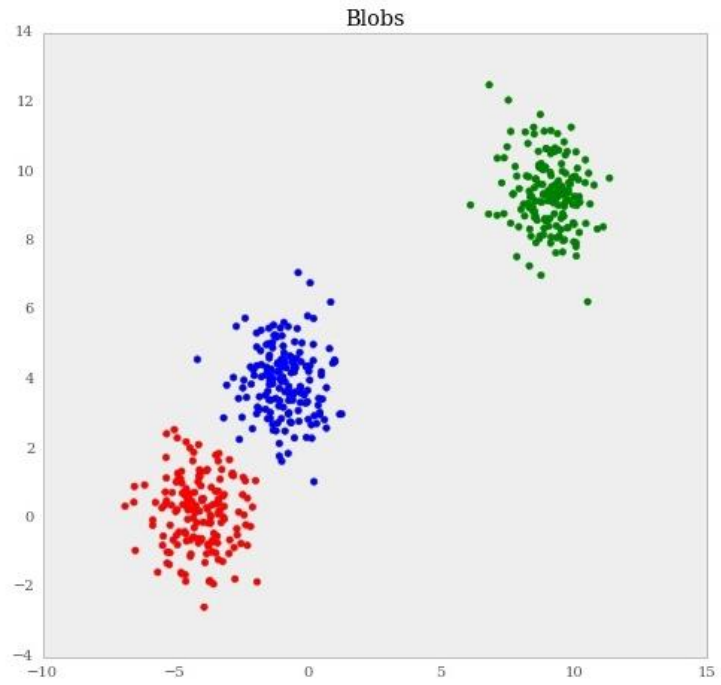
GBR Residuals vs LR Residuals

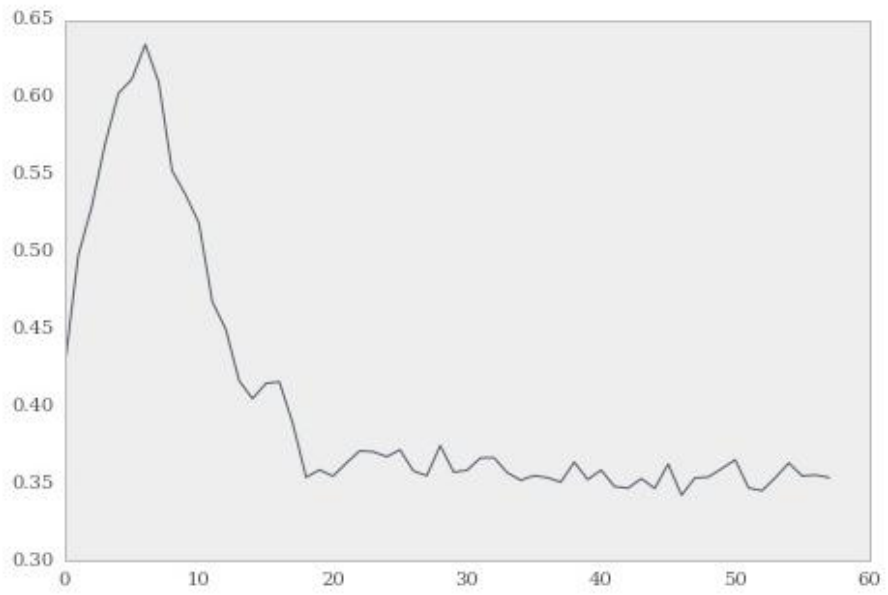
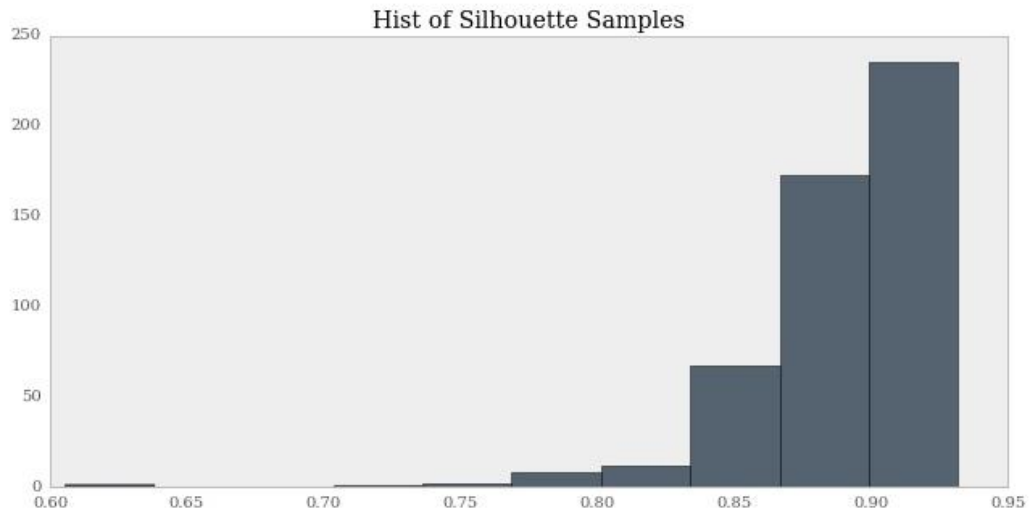


Residuals at Various Numbers of Estimators

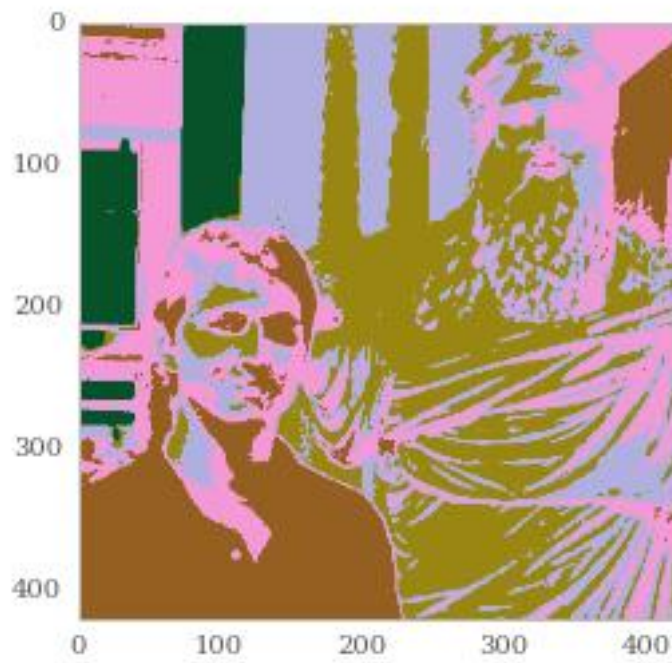


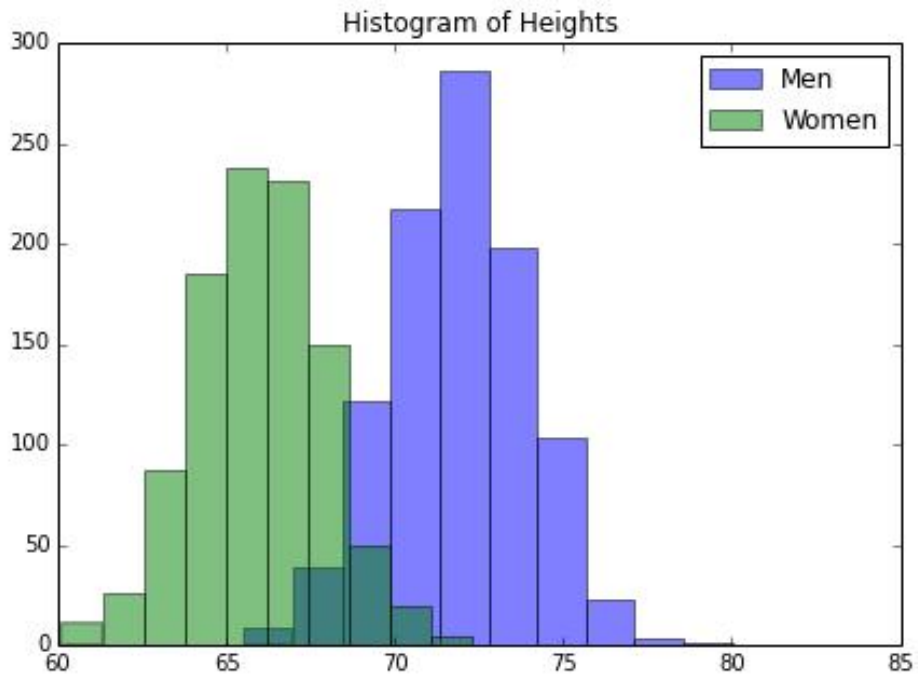
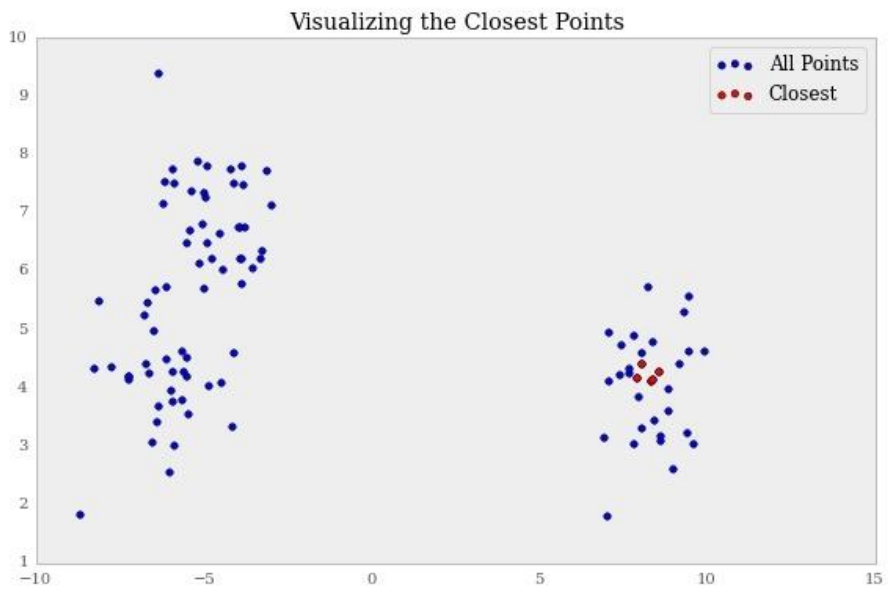
# Chapter 3

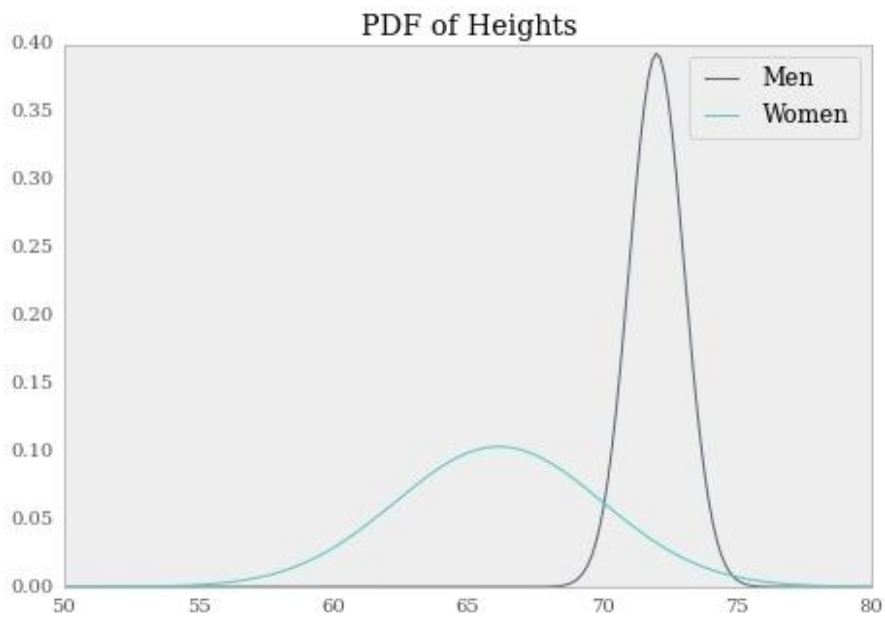
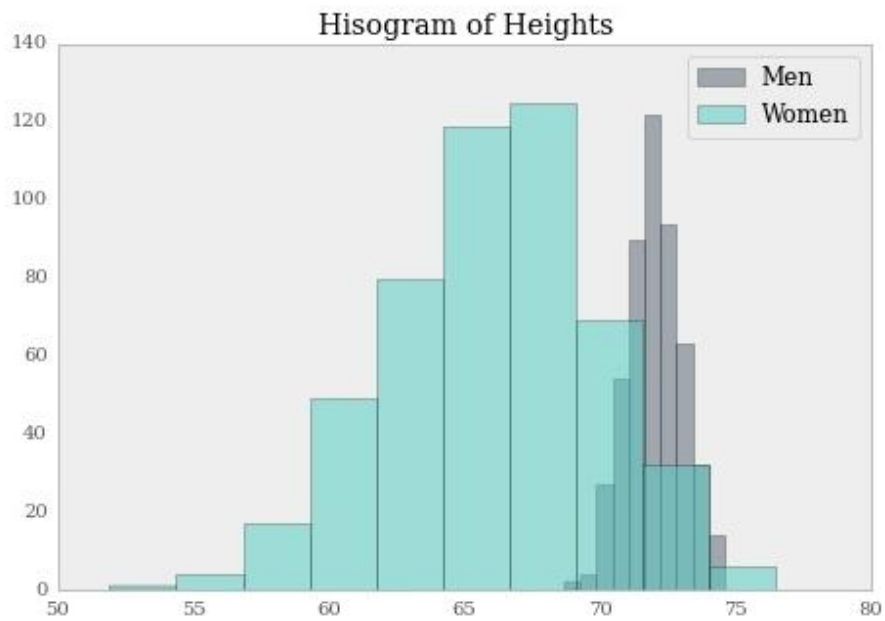


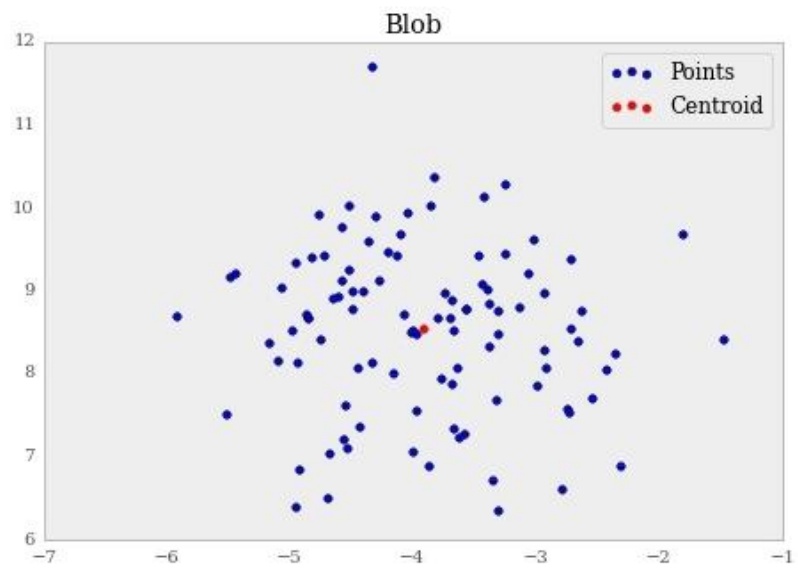
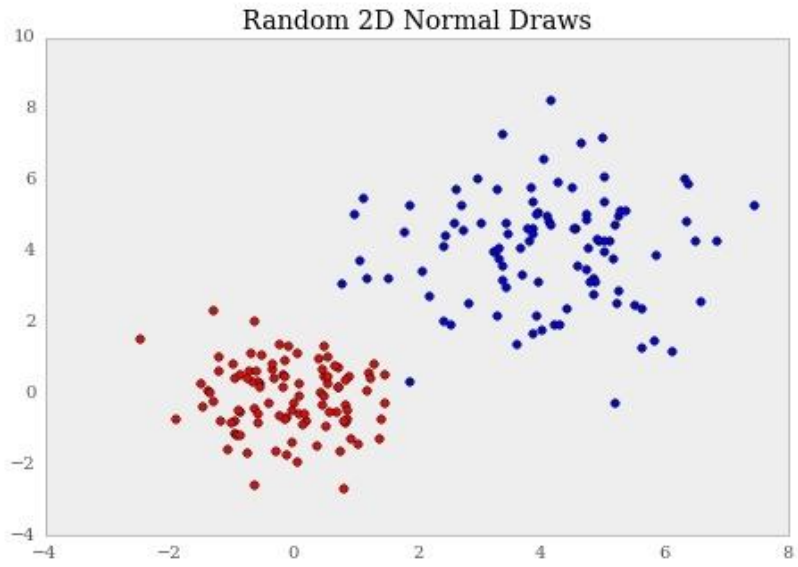


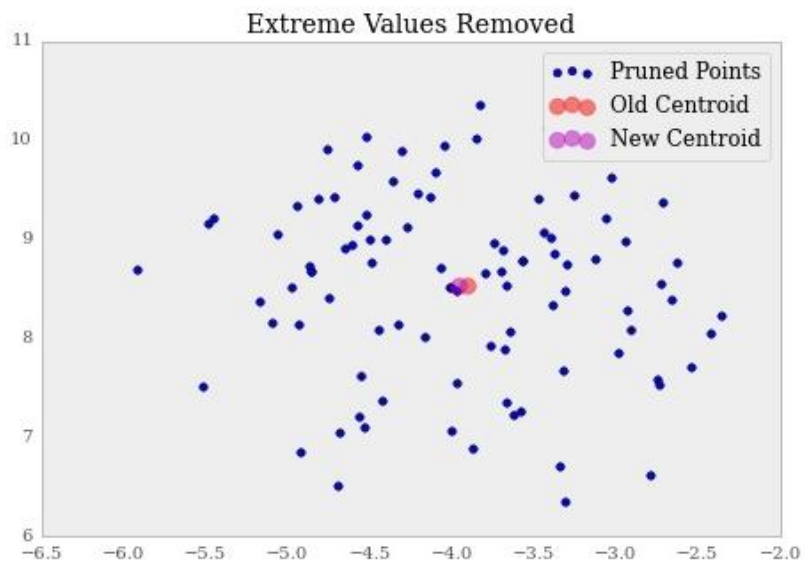
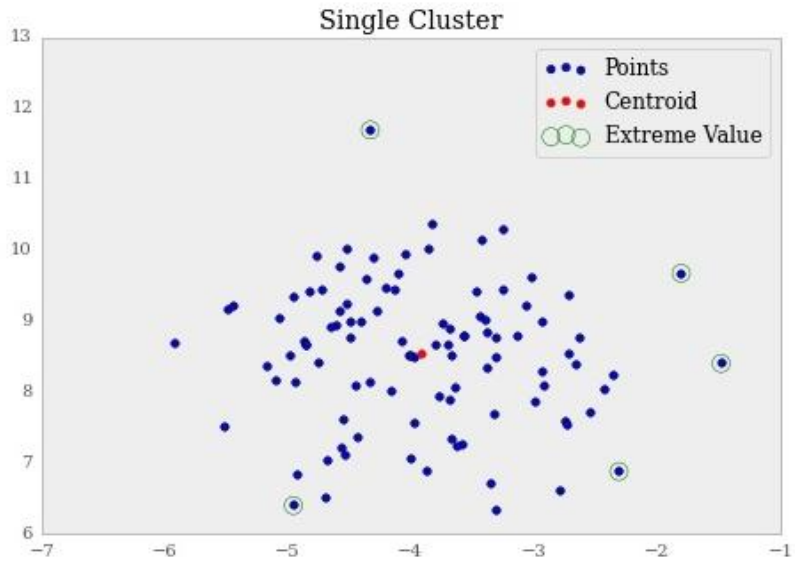




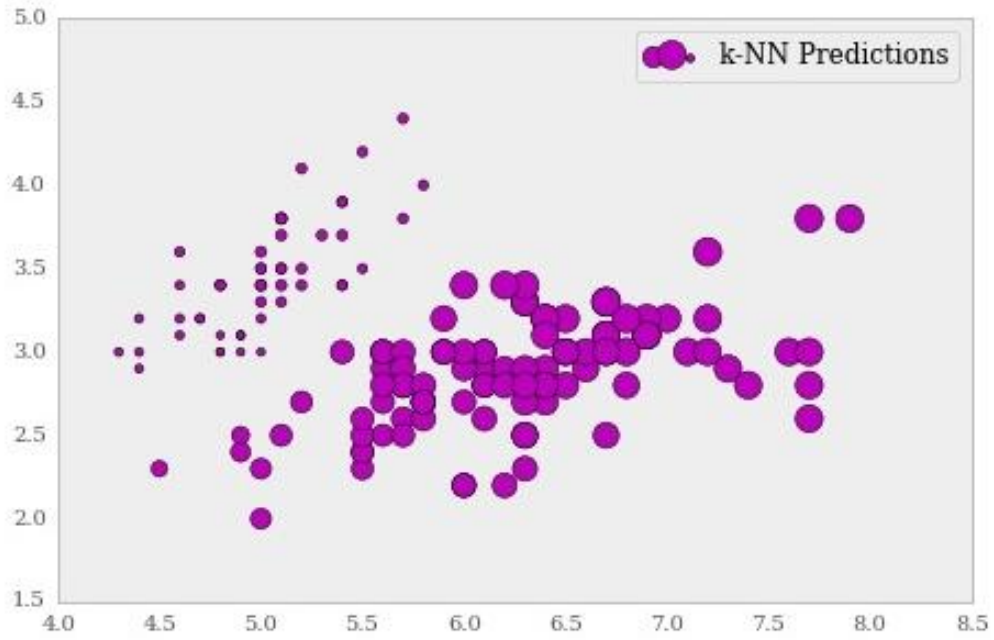
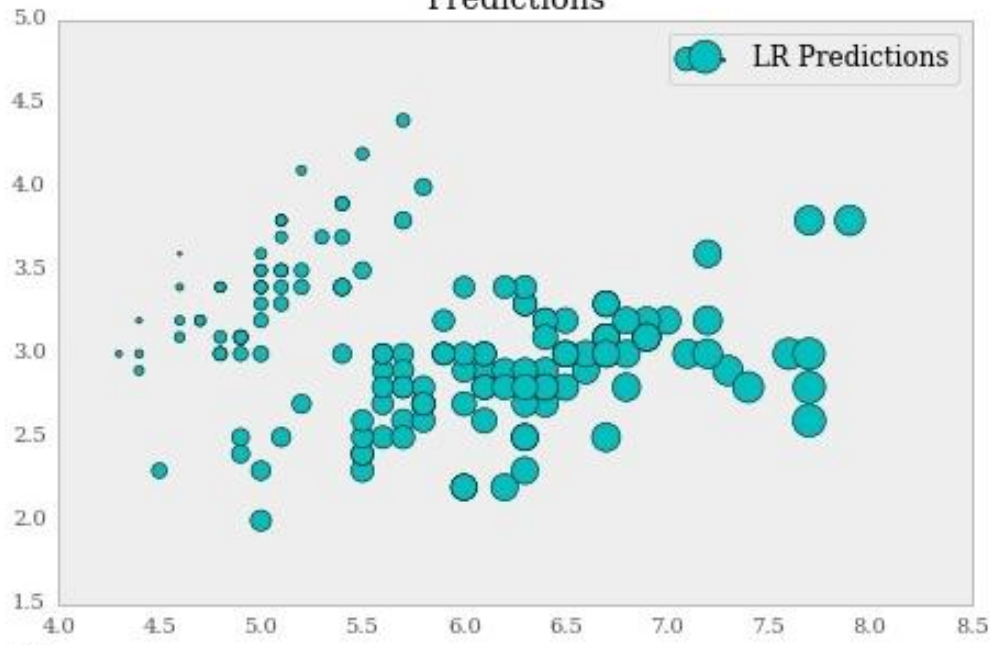


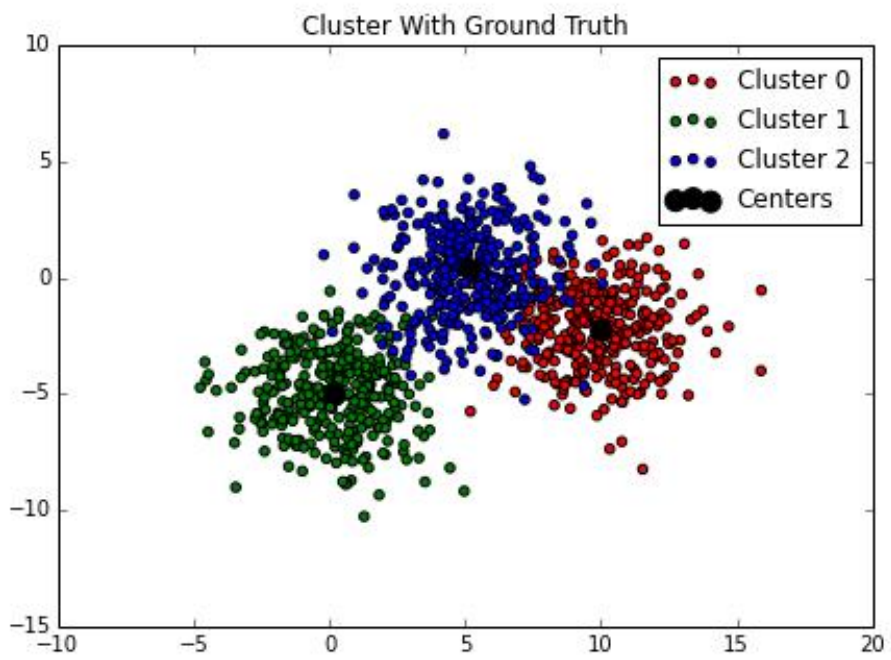
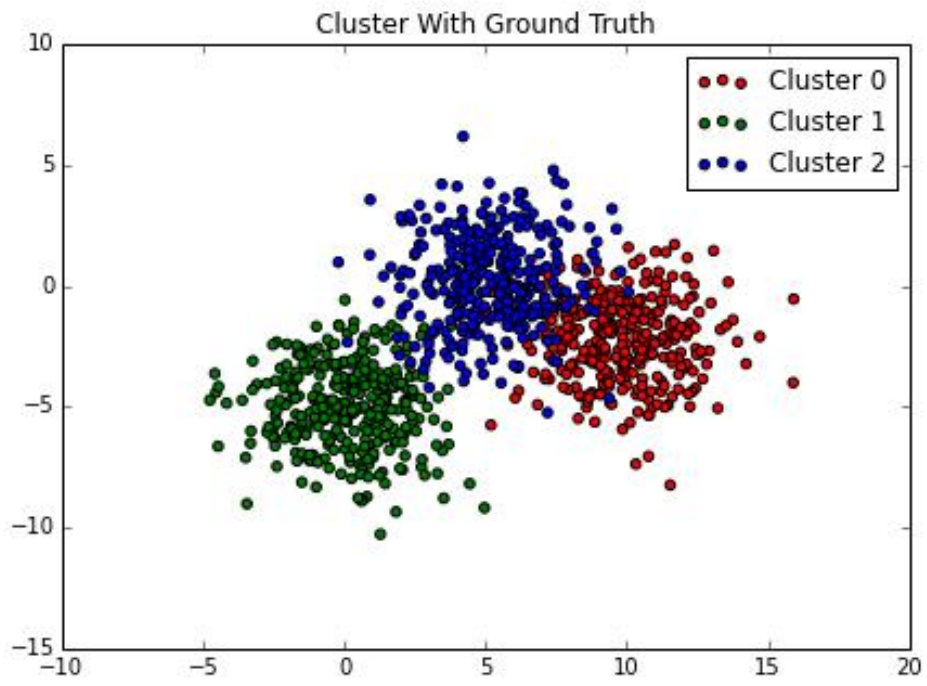




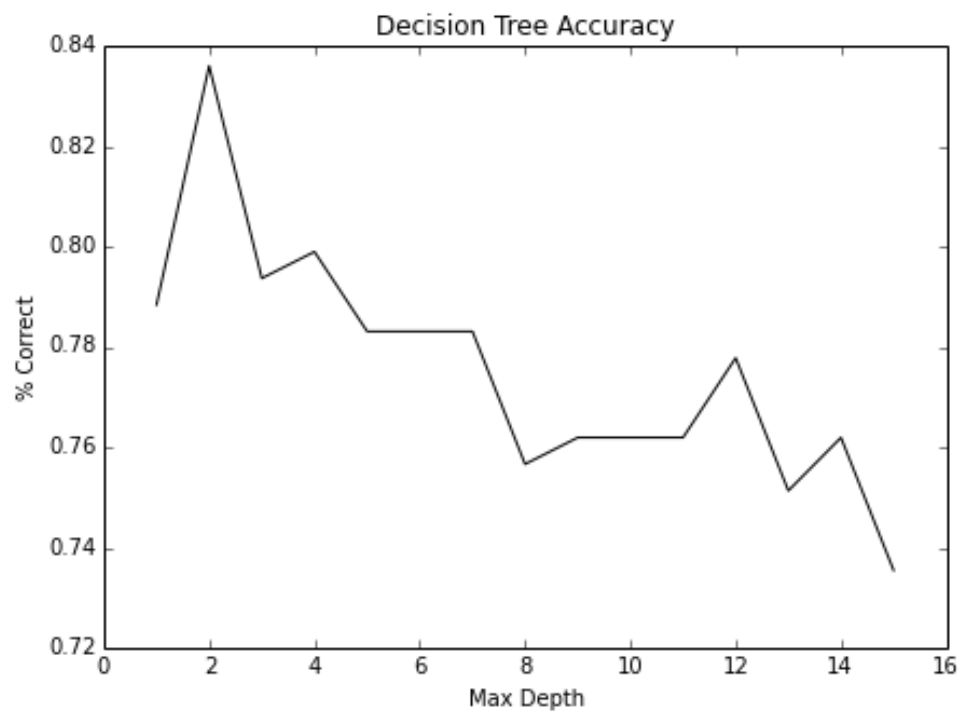
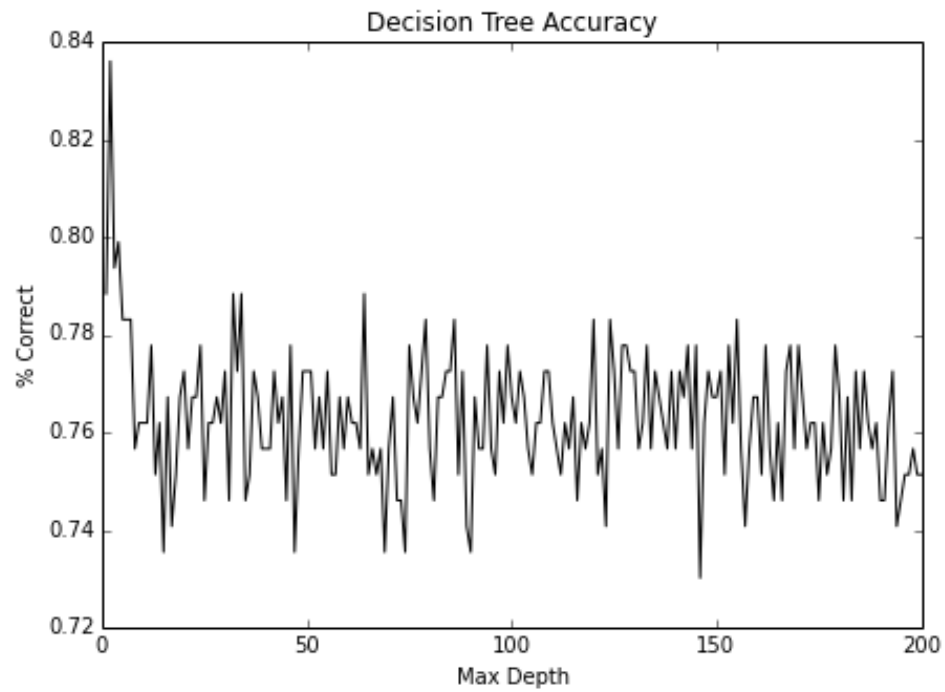


Predictions

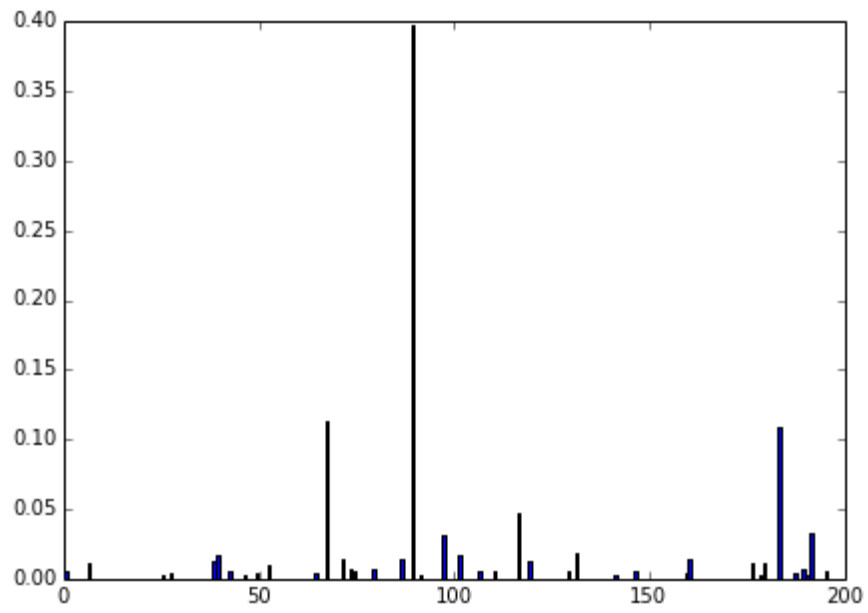


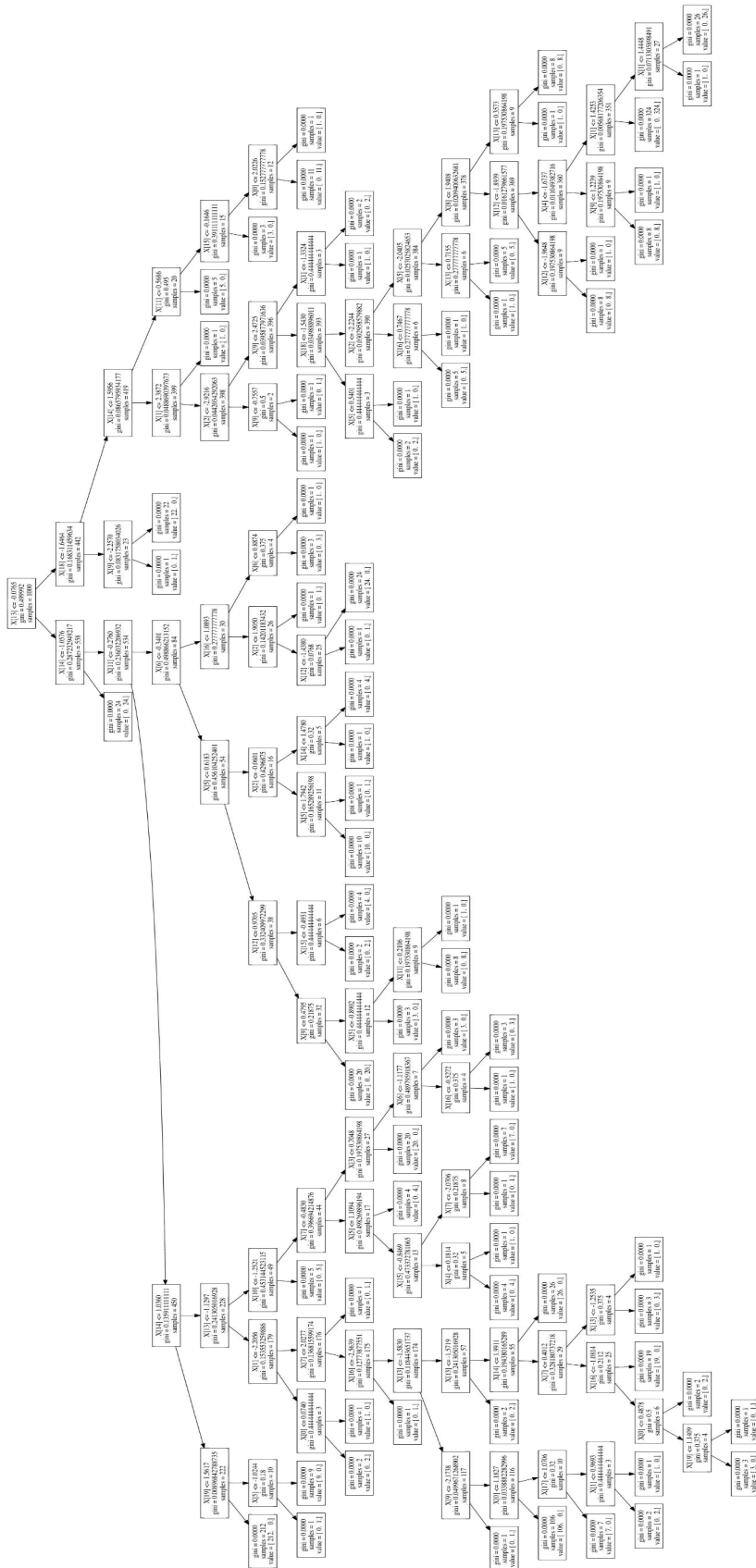


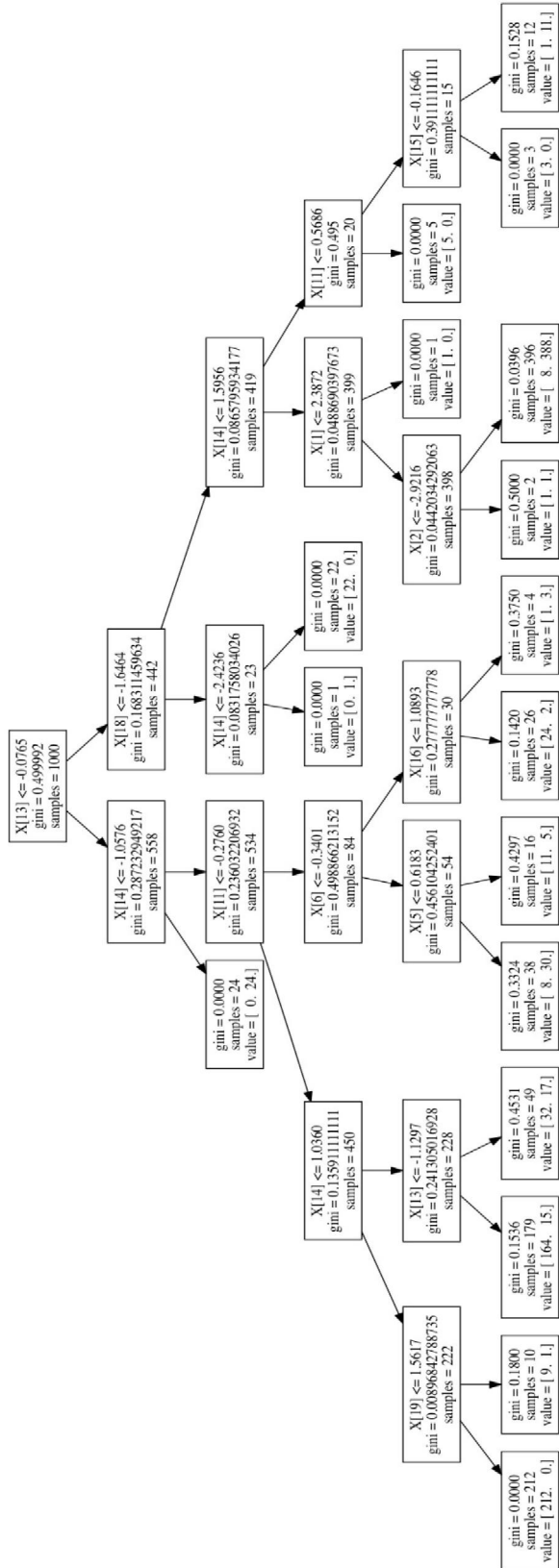
## Chapter 4

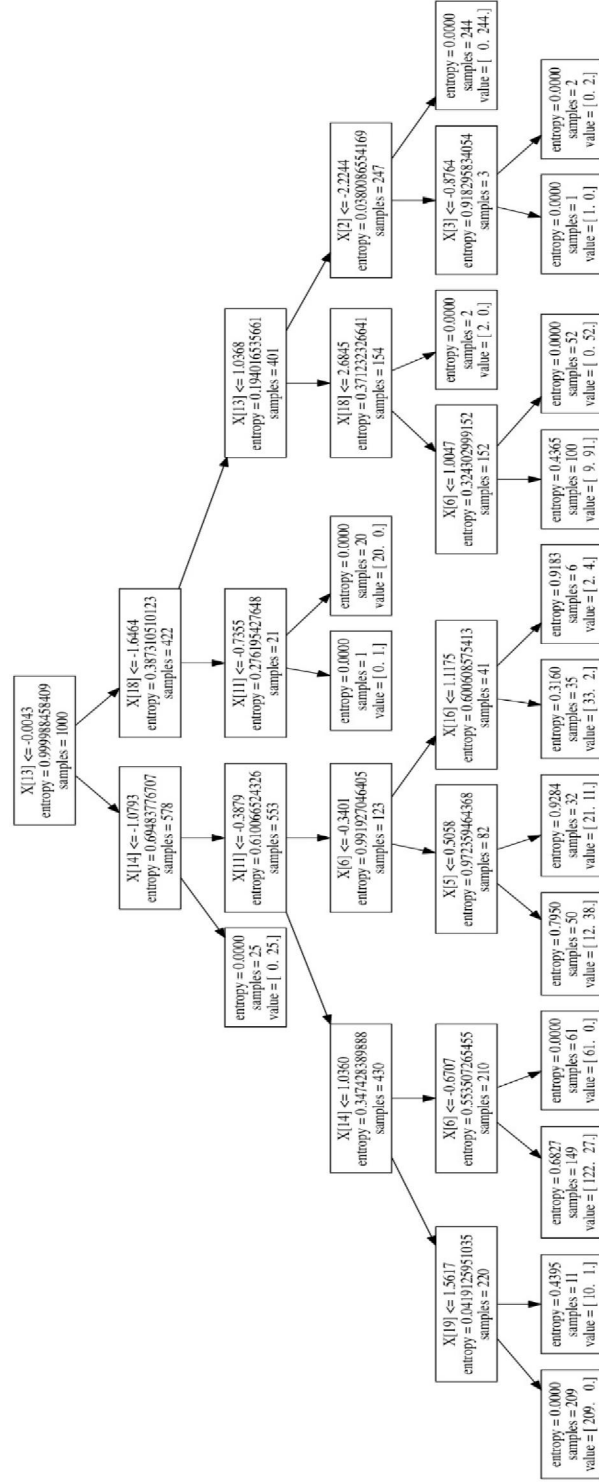


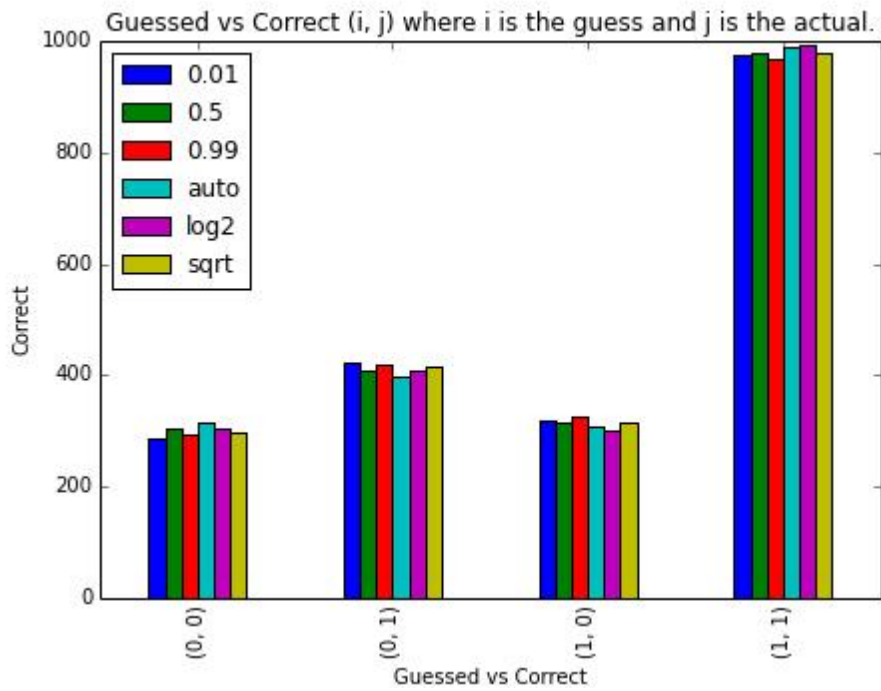
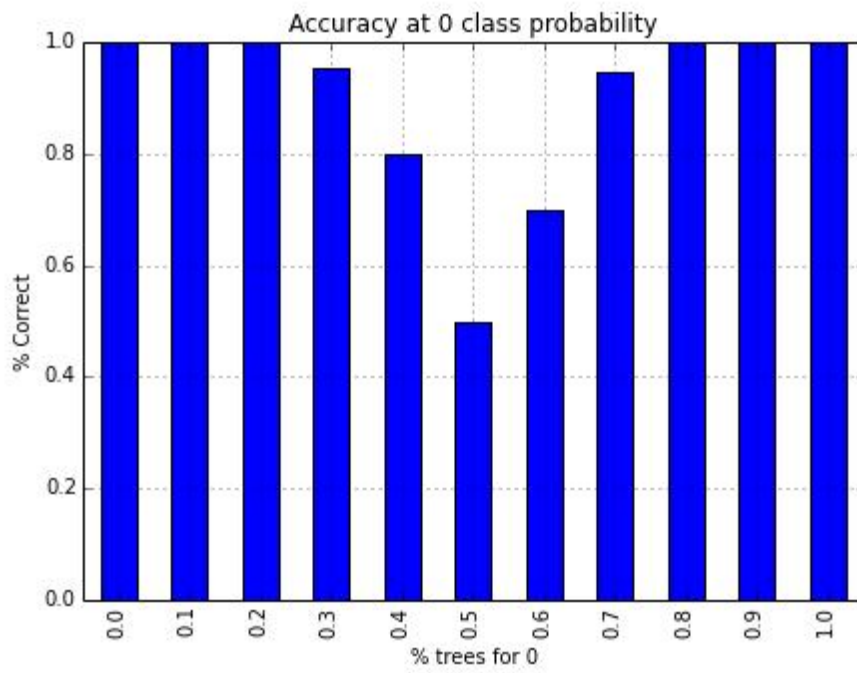


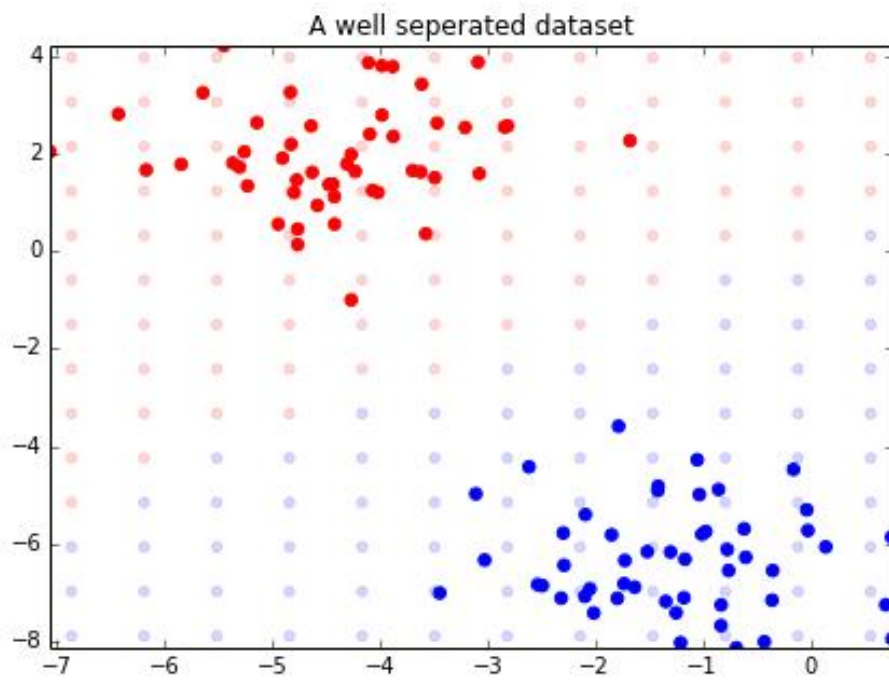
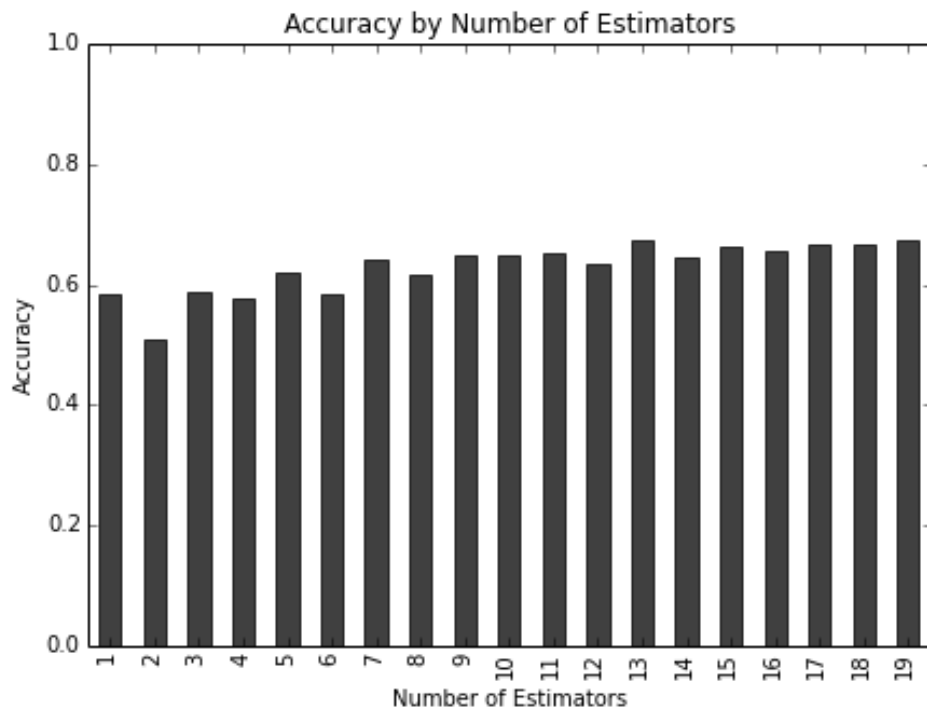


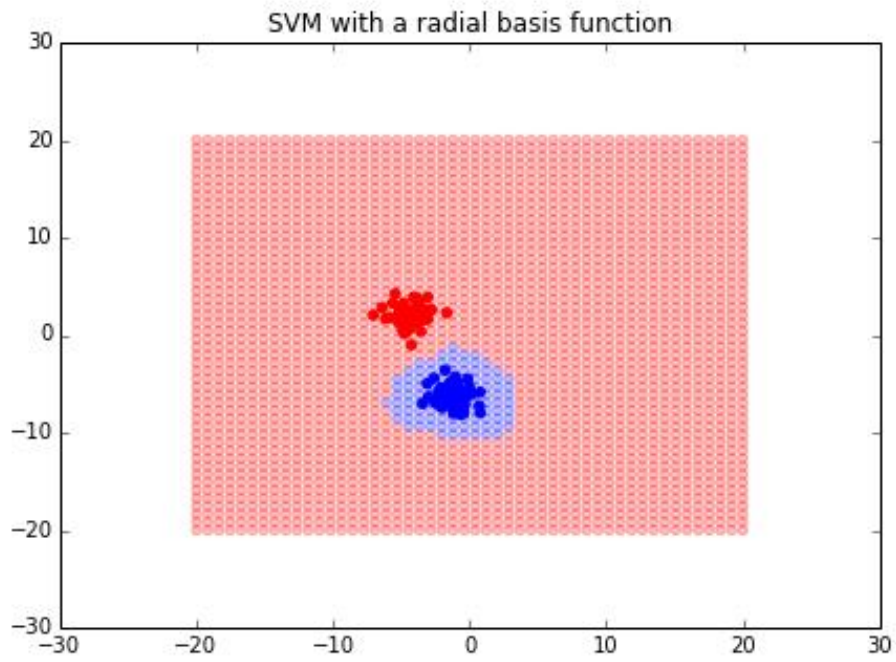
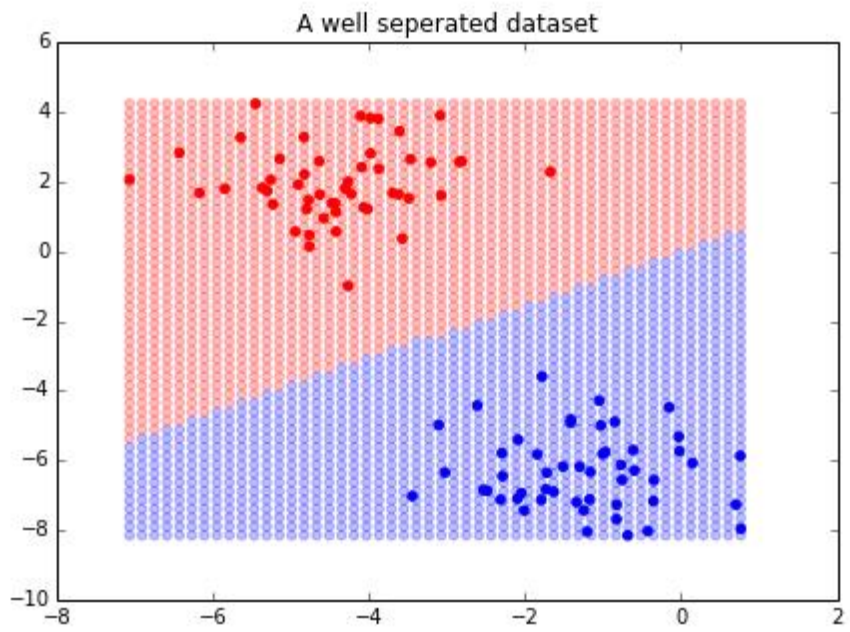


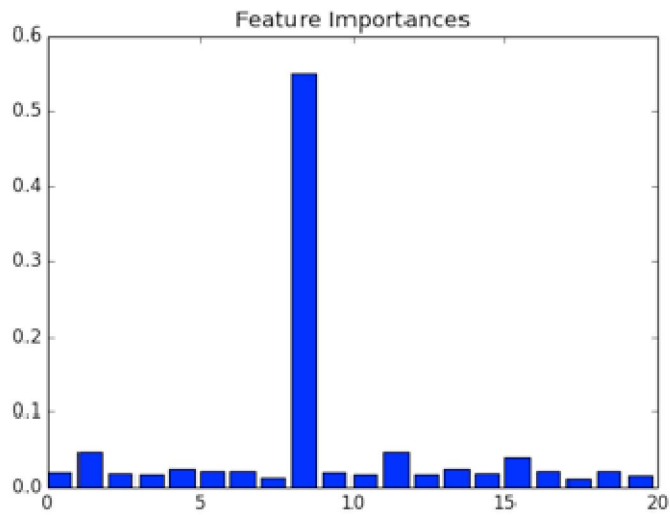
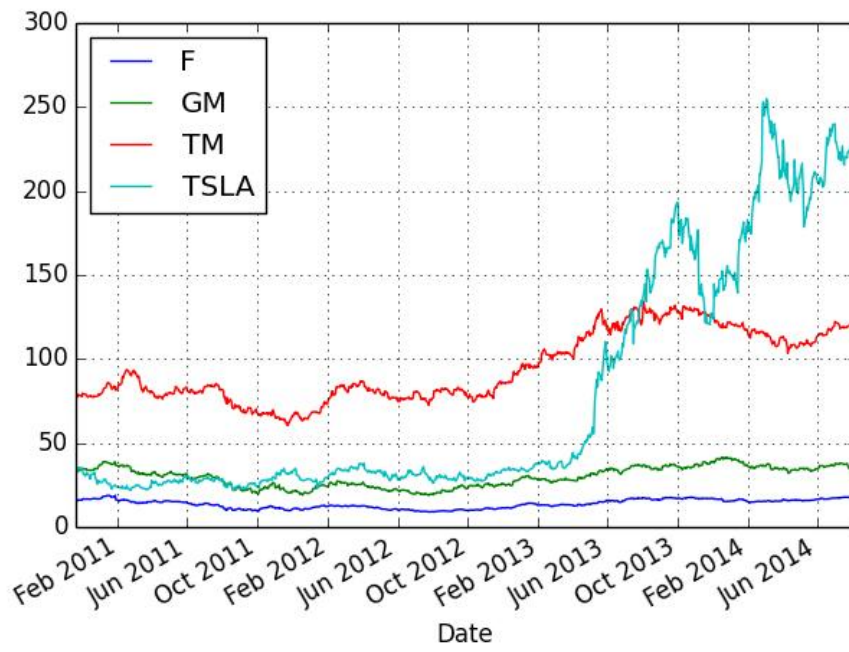














		<b>Open</b>	<b>High</b>	<b>Low</b>	<b>Close</b>	<b>Volume</b>	<b>Adj Close</b>	<b>is_higher</b>
<b>Date</b>	<b>minor</b>							
<b>2010-11-18</b>	<b>F</b>	16.77	16.87	16.05	16.12	256937900	15.07	0
	<b>GM</b>	35.00	35.99	33.89	34.19	457044300	33.61	0
	<b>TM</b>	77.36	77.51	76.83	77.29	989100	77.29	0
	<b>TSLA</b>	30.67	30.74	28.92	29.89	956100	29.89	0
<b>2010-11-19</b>	<b>F</b>	16.02	16.38	15.83	16.28	130323600	15.22	0

	<b>Open</b>	<b>High</b>	<b>Low</b>	<b>Close</b>	<b>Volume</b>	<b>is_higher</b>
<b>0</b>	16.77	16.87	16.05	16.12	256937900	0
<b>1</b>	35.00	35.99	33.89	34.19	457044300	0
<b>2</b>	77.36	77.51	76.83	77.29	989100	0
<b>3</b>	30.67	30.74	28.92	29.89	956100	0
<b>4</b>	16.02	16.38	15.83	16.28	130323600	0

## Chapter 5

