1. Raw data

Price changes in Ilford (© UK Land Registry API)

Price changes in West Drayton (© UK Land Registry API)

2. Seaborn Interpretation

Price changes in Ilford (© UK Land Registry API)

Price changes in West Drayton (© UK Land Registry API)
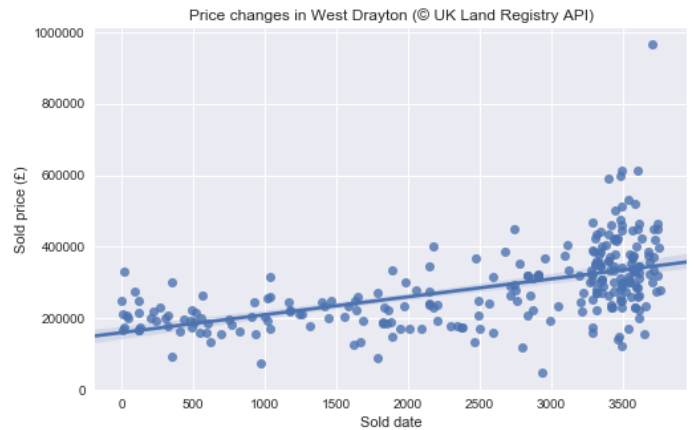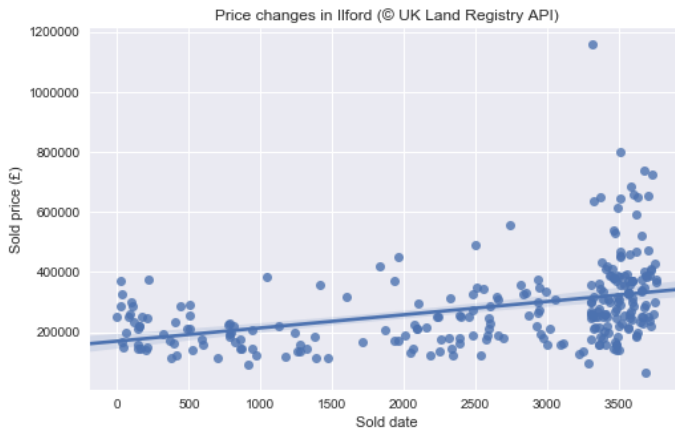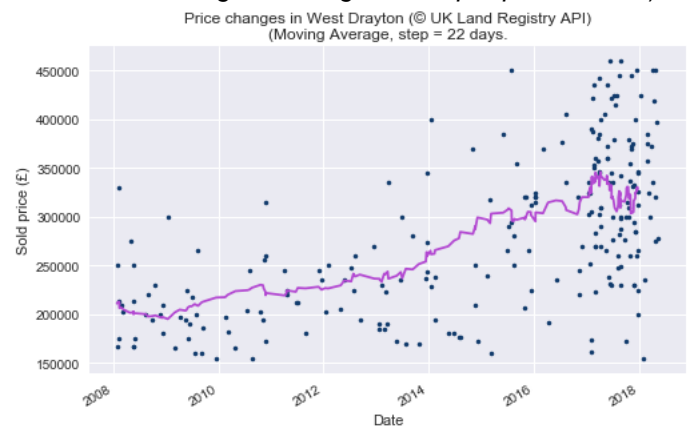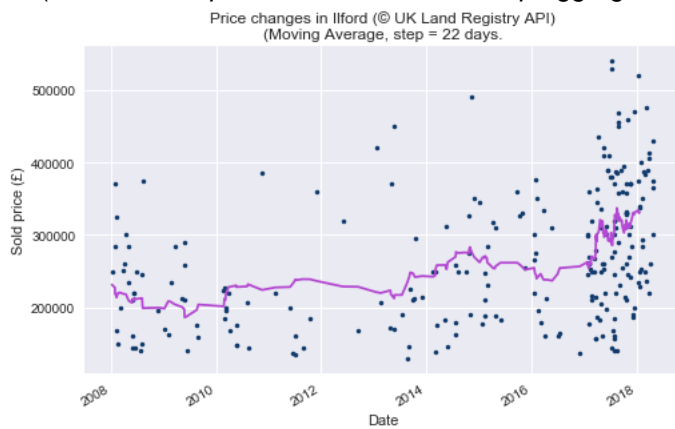
3. Indentification of outliers and data noise cleaning
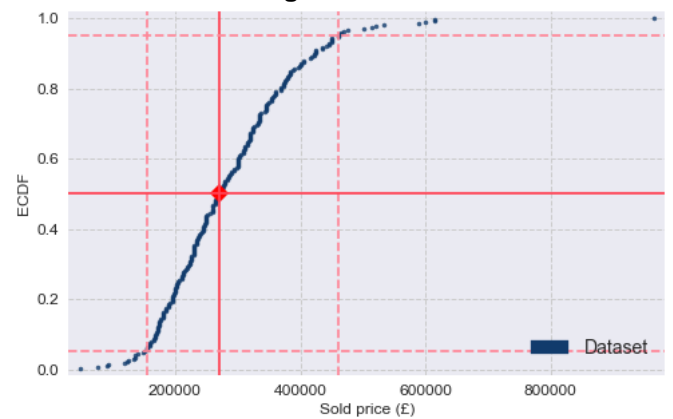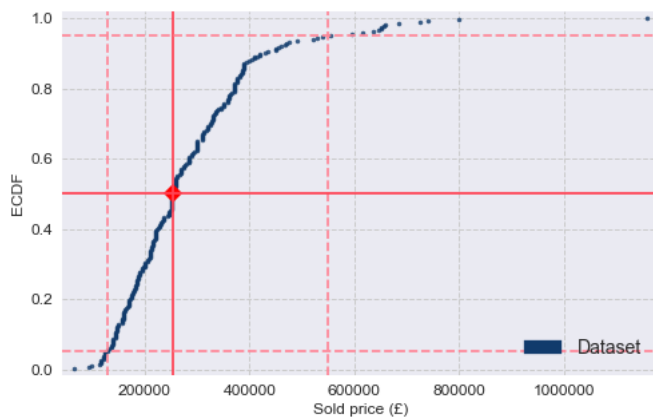
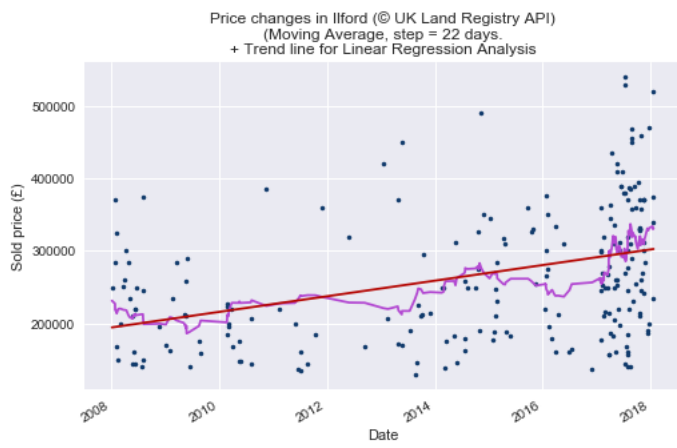## 4. Data aggregating by incorporating Moving average (SMV, step = 22 days)
(*after some experiments this value of step aggregate historical values avoiding overfitting and keep representative*)
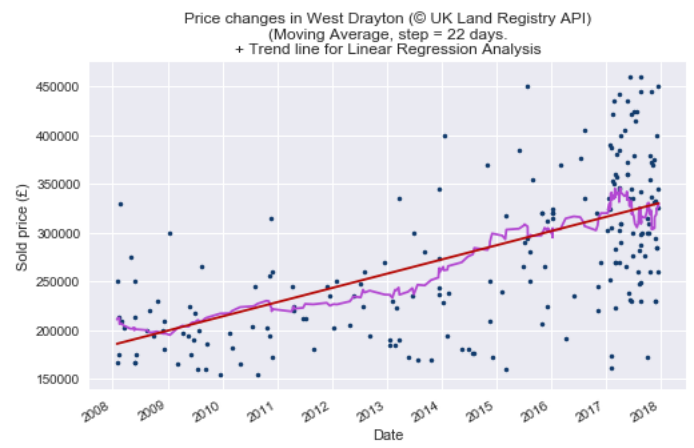

Price changes in Ilford (© UK Land Registry API)
(Moving Average, step = 22 days.

Price changes in West Drayton (© UK Land Registry API)
(Moving Average, step = 22 days.

5. Generating Linear Linear Regression equation

Price changes in Ilford (© UK Land Registry API)
(Moving Average, step = 22 days.
+ Trend line for Linear Regression Analysis

$$y = 194482.23 + 29.53 \times X$$

Pearson correlation coefficient: 0.874

Price changes in West Drayton (© UK Land Registry API)
(Moving Average, step = 22 days.
+ Trend line for Linear Regression Analysis

$$y = 186146.99 + 39.94 \times X$$

Pearson correlation coefficient: 0.964