

HÁSKÓLINN Í REYKJAVÍK  
REYKJAVIK UNIVERSITY

ENGINEERING DEPARTMENT  
GAGNANÁM OG VITVÉLAR  
T-809-DATA

## Assignment 7

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## 1 Section 1.2

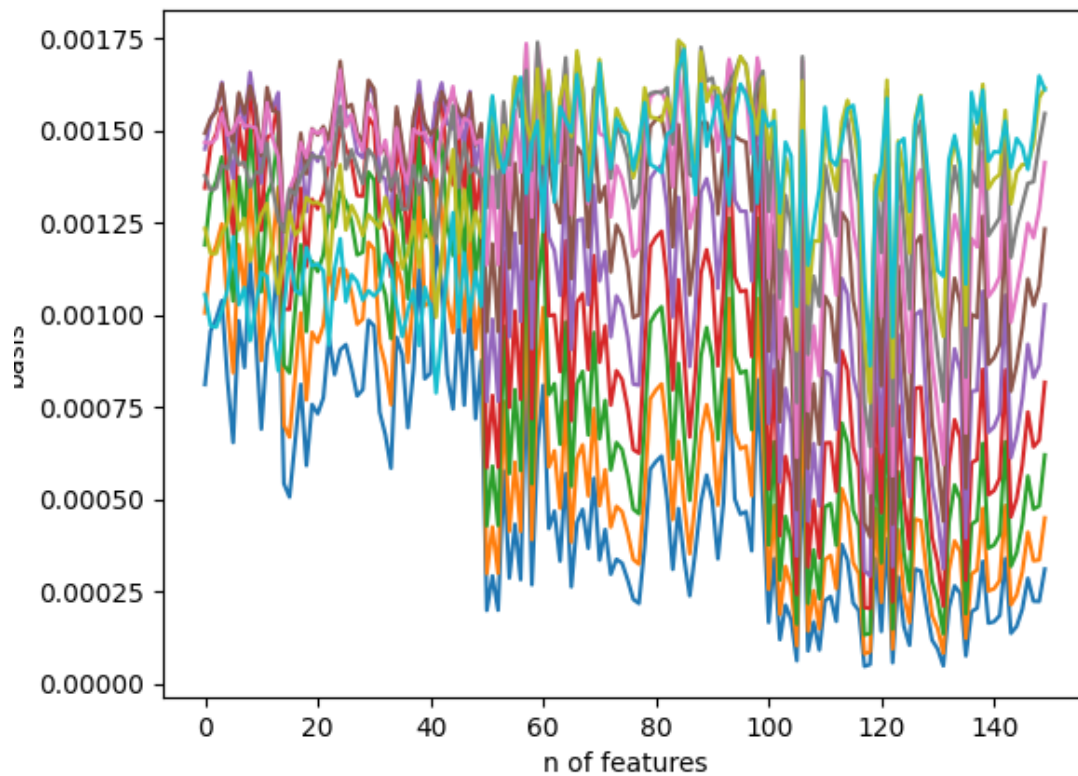


Figure 1: plot\_1\_2, basis functions as a function of the features

The graph shows the output of each basis function, as a function of the features, each color is a different basis function.

## 2 Section 1.5

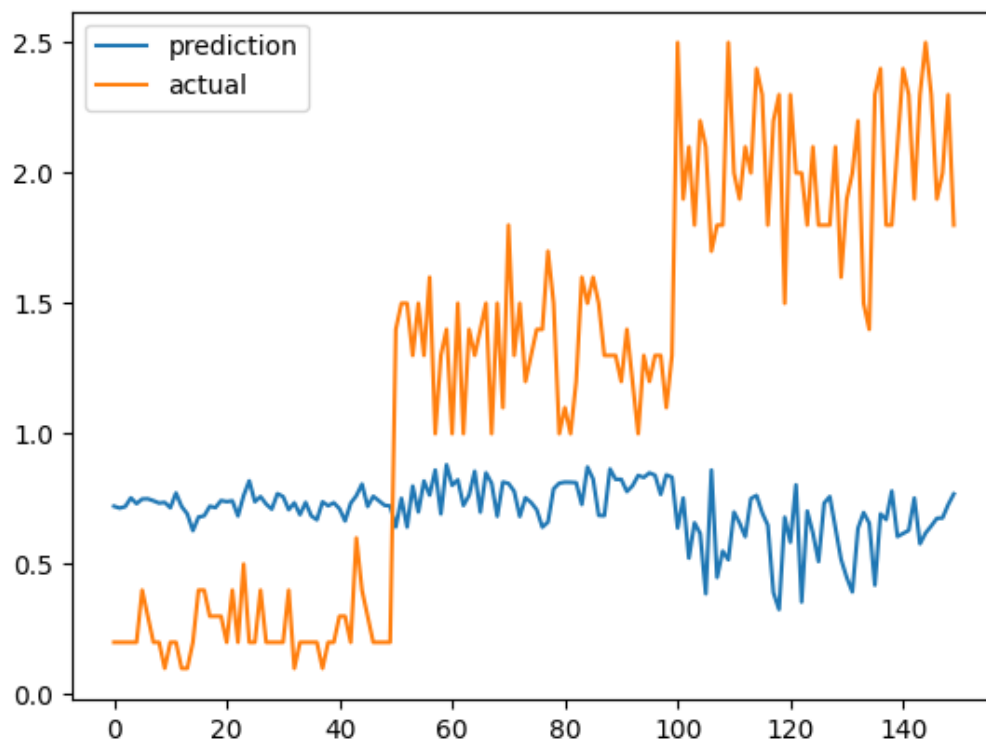


Figure 2: Actual vs. predicted values

- How good are these predictions?
  - These predictions are not very good, as can be seen in figure 2. Where the blue values are the predicted values and the orange values are the actual values. We can see that the predicted values are never equal the actual values, this tells us that our predictions are not very accurate. Which I believe is to be expected, since the actual values are not just one range of numbers, but three different ranges, so our prediction hasn't adapted to the current number range, when it switches to the next one.