

# Modern Methods in Data Analysis

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## Multivariate Data Analysis: Higgs Challenge

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# **1 Introduction**

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## **2 Getting familiar with the project**

### **2.1 Correlation of Variables**

- determination of differences in correlations of signal and background
- removal of non relevant variables

### **2.2 Choosing a Classifier**

## **3 improvement approach/Methodik**

### **3.1 Improving the Classifier**

### **3.2 Choosing the right cut**

## **4 Conclusion**