

APPLIED INFORMATICS

(PUBLIC SERVICE)
DUAL

Bachelor of Science

```
228 #decision tree
229 print("----- decision tree-----")
230 dtree = DecisionTreeClassifier(criterion='entropy', random_state=1)
231
232 start = datetime.datetime.now()
233 dtree.fit(X_train, Y_train)
234 end = datetime.datetime.now()
235 print ("Training Time : ",end-start)
236
237 start = datetime.datetime.now()
238 dtree.predict(X_test)
239 end = datetime.datetime.now()
240 print ("Testing Time : ", end-start)
241
242 s1 = dtree.score(X_test, Y_test)
243 print("Score: ", s1*100)
244
245 Y_predict = dtree.predict(X_test)
246 dt_cm = confusion_matrix(Y_test, Y_predict)
247 print(dt_cm)
248
249 tree.plot_tree(dtree)
250
251 #neural
252 print("----- neural -----")
253 neuro = MLPClassifier(random_state=1)
```



HOCHSCHULE MAINZ
UNIVERSITY OF
APPLIED SCIENCES

PROGRAM OBJECTIVES

Do you want to help develop modern communications technology and contribute to a high-performance, forward-looking IT infrastructure? In this degree program, you can help shape these issues and many more for the state of Rhineland-Palatinate. The degree program offers attractive financial incentives during your studies, such as a personally assigned laptop and tuition fees paid by the state of Rhineland-Palatinate.

PROGRAM STRUCTURE

In the first three semesters you will learn the basics, which you will then go into in greater depth in the following semesters, culminating in your bachelor's thesis. During the lecture-free periods, your vocational training takes place, organized by the cooperating authority.

PROSPECTS

This degree program not only offers the opportunity to actively participate in numerous and innovative IT projects, it also offers a secure professional future as a civil servant for the state of Rhineland-Palatinate after completing your training. You have the chance to actively shape the future and to plan and implement actual projects of your own together with a team. You have the best chances at an exciting, versatile, and crisis-proof job.

AT A GLANCE

When to start

Winter semester

Standard period of study

6 semesters, full-time

Requirements

- For more information, go to hs-mz.de/applying
- Proficiency in German and English
- Signed cooperation agreement

Application process

- Apply for vocational training position
- Submit application to the university including cooperation agreement

Contact us

informatik@hs-mainz.de

For more information

Exchange students:

hs-mainz.de/studium/services/wirtschaft/incoming/

hs-mainz.de/studium/services/technik/incoming/

Degree-seeking students:

kennnenlernen.hs-mainz.de

<https://hs-mz.de/applied-informatics-dual>

