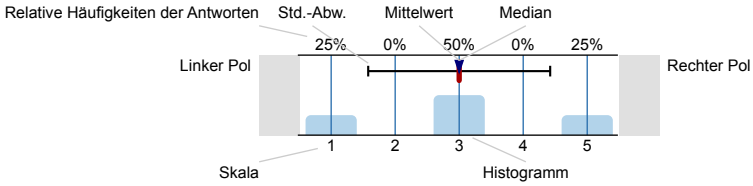
Dr. Matthias Carl Laupichler

PI_anwesend_2025 ()
Erfasste Fragebögen = 4

Auswertungsteil der geschlossenen Fragen

Legende

Fragetext



1. Questions about the course (1)

1.1) The difficulty of the lecture part of the course (i.e., theoretical input by instructors) is…

n=4

Far too low	0%
A little too low	0%
Just right	50%
A little too high	50%
Far too high	0%

1.2) The difficulty of the exercise part of the course (e.g. programming exercises in python) is…

n=4

Far too low	0%
A little too low	25%
Just right	0%
A little too high	75%
Far too high	0%

1.3) The pace of the course is…

n=4

Far too slow	0%
A little too slow	0%
Just right	100%
A little too fast	0%
Way too fast	0%

1.4) Overall, I give the course the following school grade:

n=4

“Ungenügend” / Unsatisfactory (6)	0%
“Mangelhaft” / Deficient (5)	0%
“Ausreichend” / Sufficient (4)	0%
“Befriedigend” / Satisfactory (3)	0%
“Gut” / Good (2)	25%
“Sehr gut” / Very good (1)	75%

1.5) Overall, I give the lecture part of the course (i.e., theoretical input by instructors) the following school grade:

n=4

“Ungenügend” / Unsatisfactory (6)	0%
“Mangelhaft” / Deficient (5)	0%
“Ausreichend” / Sufficient (4)	0%
“Befriedigend” / Satisfactory (3)	0%
“Gut” / Good (2)	50%
“Sehr gut” / Very good (1)	50%

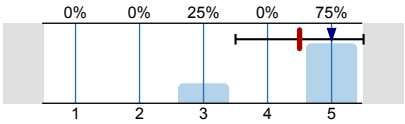
1.6) Overall, I give the exercise part of the course (e.g., programming exercises in python) the following school grade:

n=4

“Ungenügend” / Unsatisfactory (6)	0%
“Mangelhaft” / Deficient (5)	0%
“Ausreichend” / Sufficient (4)	0%
“Befriedigend” / Satisfactory (3)	0%
“Gut” / Good (2)	50%
“Sehr gut” / Very good (1)	50%

1.7) The course is useful for supervising my research group.

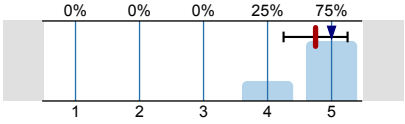
Do not agree at all — Fully agree



n=4
mw=4,5
md=5
s=1

1.8) The amount of examples in the course was appropriate.

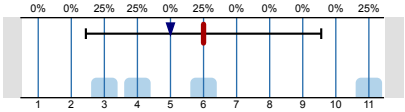
Do not agree at all — Fully agree



n=4
mw=4,8
md=5
s=0,5

1.9) Would you have preferred a greater proportion of theoretical input or a greater proportion of practical exercises? If you think that the ratio of theory and practice was good, please check a box in the middle of the scale.

More theoretical input — More practical exercises

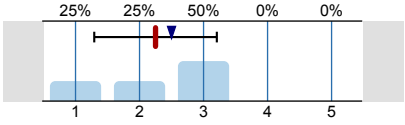


n=4
mw=6
md=5
s=3,6

2. Evaluation of Learning Objectives

2.1) **Python programming (in general):**
My skills in this area *before* starting the course were...

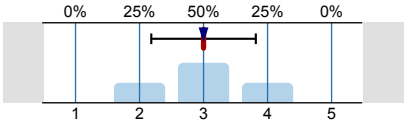
Very low — Very high



n=4
mw=2,3
md=2,5
s=1

2.2) **Python programming (in general):**
My skills in this area are *now*...

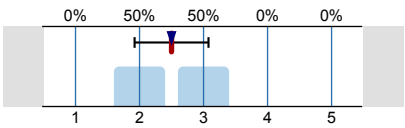
Very low — Very high



n=4
mw=3
md=3
s=0,8

2.3) **I can use the Linux terminal/console.**
My skills in this area *before* starting the course were...

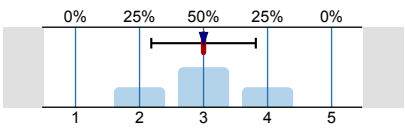
Very low — Very high



n=4
mw=2,5
md=2,5
s=0,6

2.4) **I can use the Linux terminal/console.**
My skills in this area are *now*...

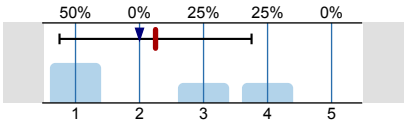
Very low — Very high



n=4
mw=3
md=3
s=0,8

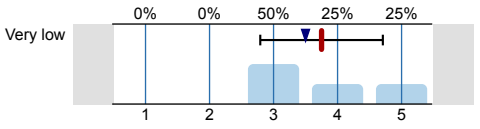
2.5) **I can explain gradient descent techniques.**
My skills in this area *before* starting the course were...

Very low — Very high



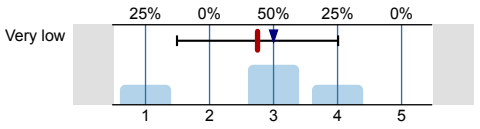
n=4
mw=2,3
md=2
s=1,5

2.6) **I can explain gradient descent techniques.**
My skills in this area are *now*...



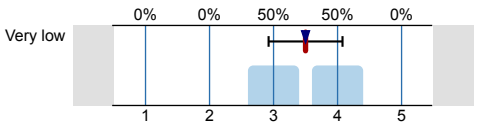
n=4
mw=3,8
md=3,5
s=1

2.7) **I can calculate descriptive statistics like mean, variance, and distribution in Python.**
My skills in this area *before* starting the course were...



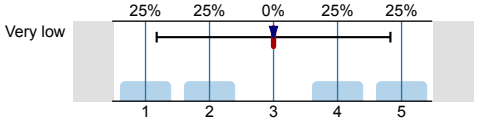
n=4
mw=2,8
md=3
s=1,3

2.8) **I can calculate descriptive statistics like mean, variance, and distribution in Python.**
My skills in this area are *now*...



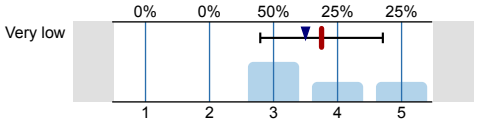
n=4
mw=3,5
md=3,5
s=0,6

2.9) **I can explain the concept of Eigenvalues and their importance for PCA.**
My skills in this area *before* starting the course were...



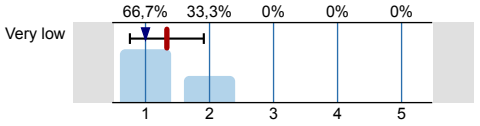
n=4
mw=3
md=3
s=1,8

2.10) **I can explain the concept of Eigenvalues and their importance for PCA.**
My skills in this area are *now*...



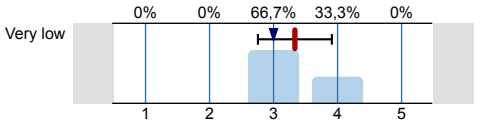
n=4
mw=3,8
md=3,5
s=1

2.11) **I can demonstrate how k-nearest neighbors algorithms work in Python.**
My skills in this area *before* starting the course were...



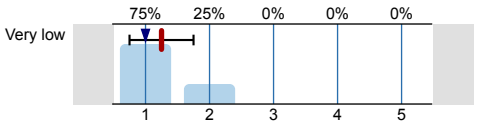
n=3
mw=1,3
md=1
s=0,6

2.12) **I can demonstrate how k-nearest neighbors algorithms work in Python.**
My skills in this area are *now*...



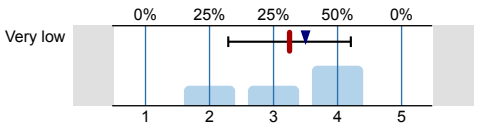
n=3
mw=3,3
md=3
s=0,6

2.13) **I can demonstrate how support vector machine algorithms work in Python.**
My skills in this area *before* starting the course were...



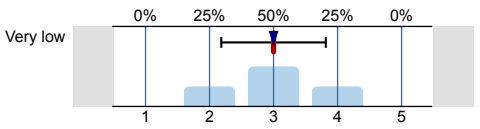
n=4
mw=1,3
md=1
s=0,5

2.14) **I can demonstrate how support vector machine algorithms work in Python.**
My skills in this area are *now*...



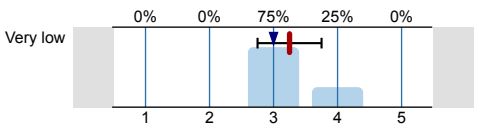
n=4
mw=3,3
md=3,5
s=1

2.15) **I can explain the concept of Gaussian mixture models.**
My skills in this area *before* starting the course were...



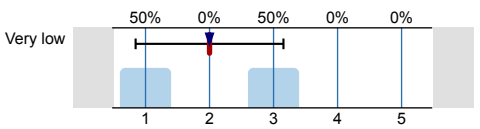
n=4
mw=3
md=3
s=0,8

2.16) **I can explain the concept of Gaussian mixture models.**
My skills in this area are *now*...



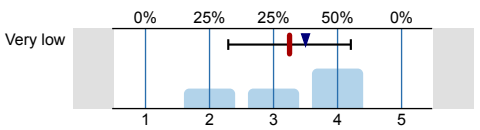
n=4
mw=3,3
md=3
s=0,5

2.17) **I can use PCA for dimensionality reduction in Python.**
My skills in this area *before* starting the course were...



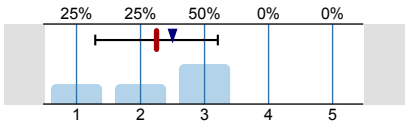
n=4
mw=2
md=2
s=1,2

2.18) **I can use PCA for dimensionality reduction in Python.**
My skills in this area are *now*...



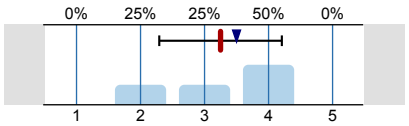
n=4
mw=3,3
md=3,5
s=1

2.19) **I can explain the concepts of feedforward neural networks and convolutional neural networks.**
My skills in this area *before* starting the course were...



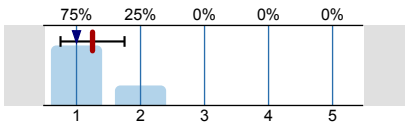
n=4
mw=2,3
md=2,5
s=1

2.20) **I can explain the concept of feedforward neural networks and convolutional neural networks.**
My skills in this area are *now*...



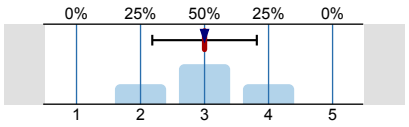
n=4
mw=3,3
md=3,5
s=1

2.21) **I can demonstrate the training process of simple neural networks in Python.**
My skills in this area *before* starting the course were...



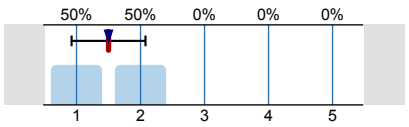
n=4
mw=1,3
md=1
s=0,5

2.22) **I can demonstrate the training process of simple neural networks in Python.**
My skills in this area are *now*...



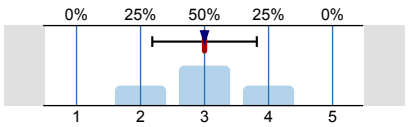
n=4
mw=3
md=3
s=0,8

2.23) **I can explain the link between convolutional neural networks and cross correlation.**
My skills in this area *before* starting the course were...



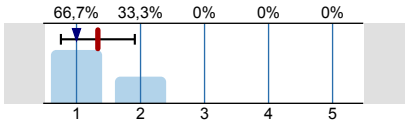
n=4
mw=1,5
md=1,5
s=0,6

2.24) **I can explain the link between convolutional neural networks and cross correlation.**
My skills in this area are *now*...



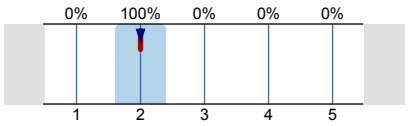
n=4
mw=3
md=3
s=0,8

2.25) **I can lead projects based on large language models (LLMs) in an informed way.**
My skills in this area *before* starting the course were...



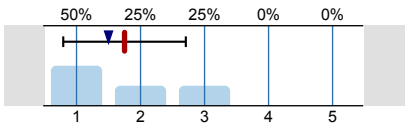
n=3
mw=1,3
md=1
s=0,6
E.=1

2.26) **I can lead projects based on large language models (LLMs) in an informed way.**
My skills in this area are *now*...



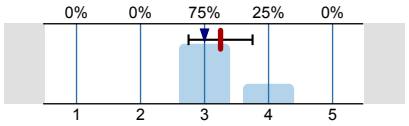
n=2
mw=2
md=2
s=0
E.=2

2.27) **I know the most important software engineering principles and instruct my team members to follow them.**
My skills in this area *before* starting the course were...



n=4
mw=1,8
md=1,5
s=1

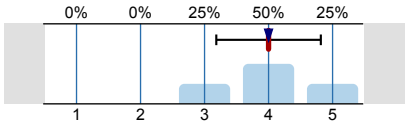
2.28) **I know the most important software engineering principles and instruct my team members to follow them.**
My skills in this area are *now*...



n=4
mw=3,3
md=3
s=0,5

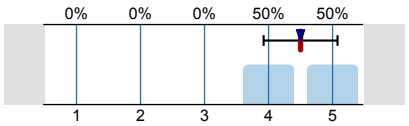
3. Questions about the course (2)

3.1) Was GitHub a helpful tool for conducting the course?



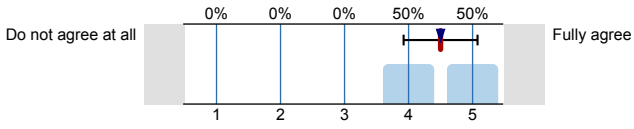
n=4
mw=4
md=4
s=0,8

3.2) The course follows a clear structure.



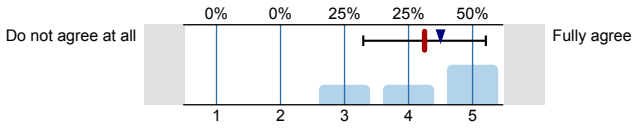
n=4
mw=4,5
md=4,5
s=0,6

3.3) The way the course is designed adds to the understanding of the material.



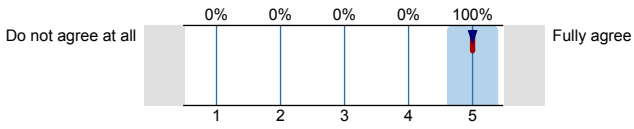
n=4
mw=4,5
md=4,5
s=0,6

3.4) The course has a good mix of knowledge transfer, interactive elements and discussion.



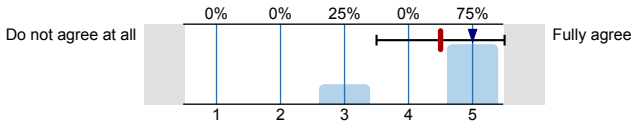
n=4
mw=4,3
md=4,5
s=1

3.5) The instructors are responsive to questions and suggestions.



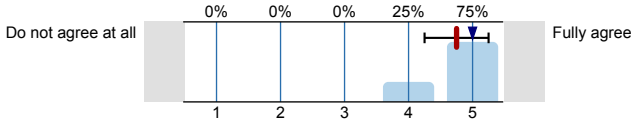
n=4
mw=5
md=5
s=0

3.6) The instructors clarify the usability and usefulness of the course content.



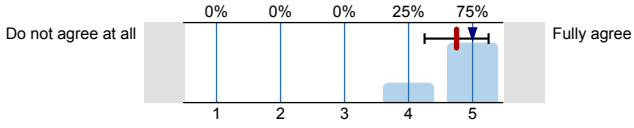
n=4
mw=4,5
md=5
s=1

3.7) The instructors use good teaching materials (e.g., slides, presentations, bibliography, script) to support the learning process.



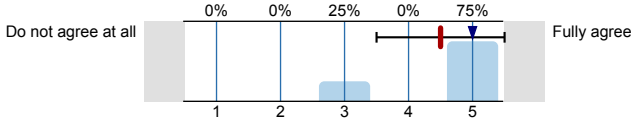
n=4
mw=4,8
md=5
s=0,5

3.8) The instructors have good time management skills.



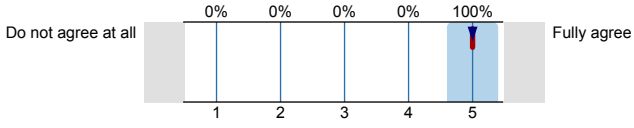
n=4
mw=4,8
md=5
s=0,5

3.9) The instructors express themselves clearly and comprehensively.



n=4
mw=4,5
md=5
s=1

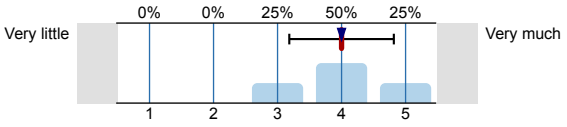
3.10) The instructors encourage active participation in the course.



n=4
mw=5
md=5
s=0

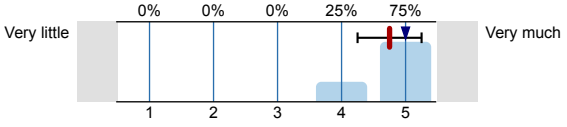
4. Questions about the course (4)

4.1) How much did you learn in this course?



n=4
mw=4
md=4
s=0,8

4.2) How interested were you in the topic ***before*** the course began?



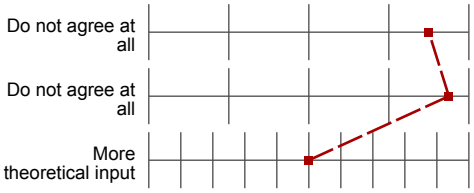
n=4
mw=4,8
md=5
s=0,5

Profillinie

Teilbereich: Institut für Medizindidaktik
Name der/des Lehrenden: Dr. Matthias Carl Laupichler
Titel der Lehrveranstaltung: (Name der Umfrage) PI_anwesend_2025

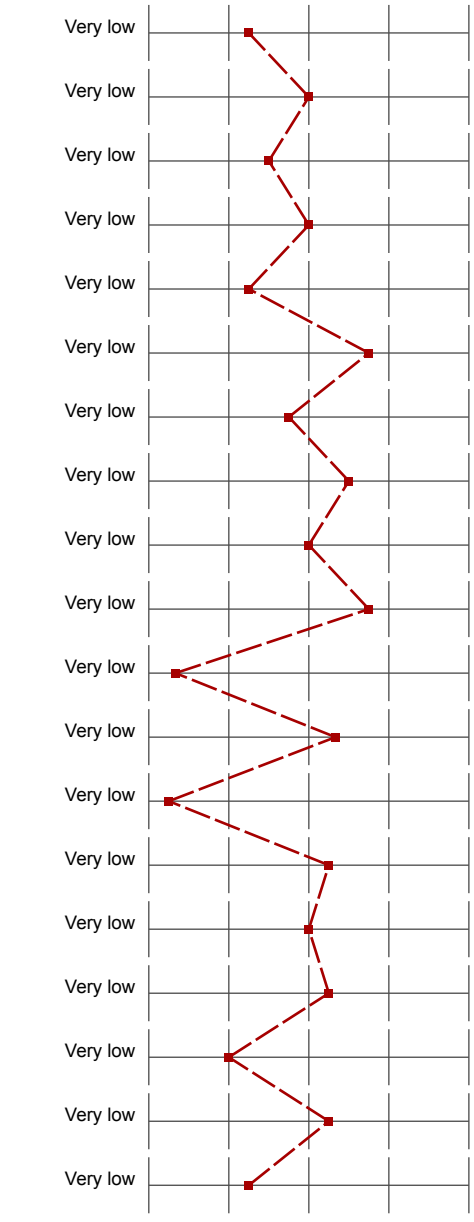
Verwendete Werte in der Profillinie: Mittelwert

1. Questions about the course (1)



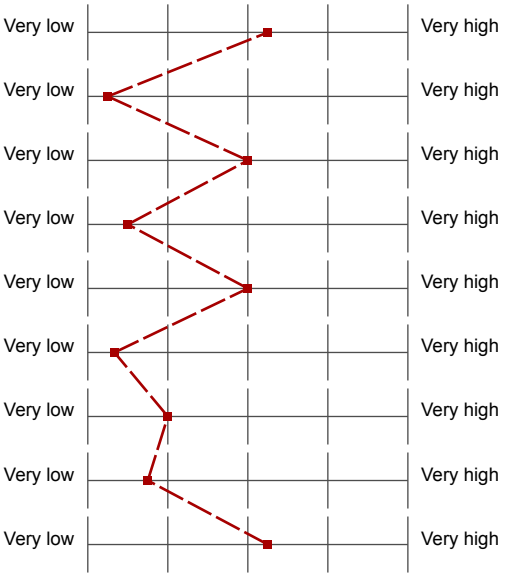
1.7)	The course is useful for supervising my research group.	Do not agree at all	Fully agree	n=4	mw=4,5	md=5	s=1
1.8)	The amount of examples in the course was appropriate.	Do not agree at all	Fully agree	n=4	mw=4,8	md=5	s=0,5
1.9)	Would you have preferred a greater proportion of theoretical input or a greater proportion of practical exercises? If you think that the ratio of	More theoretical input	More practical exercises	n=4	mw=6	md=5	s=3,6

2. Evaluation of Learning Objectives



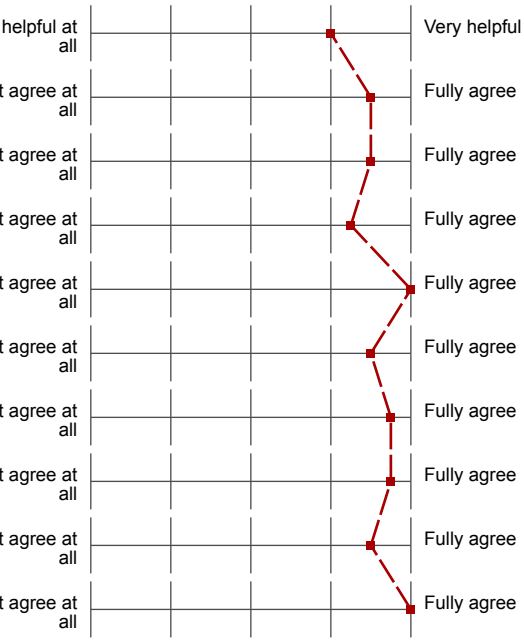
2.1)	**Python programming (in general):** My skills in this area *before* starting the course were...	Very low	Very high	n=4	mw=2,3	md=2,5	s=1
2.2)	**Python programming (in general):** My skills in this area are *now*...	Very low	Very high	n=4	mw=3	md=3	s=0,8
2.3)	**I can use the Linux terminal/console.** My skills in this area *before* starting the course were...	Very low	Very high	n=4	mw=2,5	md=2,5	s=0,6
2.4)	**I can use the Linux terminal/console.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3	md=3	s=0,8
2.5)	**I can explain gradient descent techniques.** My skills in this area *before* starting the course were...	Very low	Very high	n=4	mw=2,3	md=2	s=1,5
2.6)	**I can explain gradient descent techniques.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,8	md=3,5	s=1
2.7)	**I can calculate descriptive statistics like mean, variance, and distribution in Python.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=2,8	md=3	s=1,3
2.8)	**I can calculate descriptive statistics like mean, variance, and distribution in Python.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,5	md=3,5	s=0,6
2.9)	**I can explain the concept of Eigenvalues and their importance for PCA.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=3	md=3	s=1,8
2.10)	**I can explain the concept of Eigenvalues and their importance for PCA.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,8	md=3,5	s=1
2.11)	**I can demonstrate how k-nearest neighbors algorithms work in Python.** My skills in this area *before* starting the course	Very low	Very high	n=3	mw=1,3	md=1	s=0,6
2.12)	**I can demonstrate how k-nearest neighbors algorithms work in Python.** My skills in this area are *now*...	Very low	Very high	n=3	mw=3,3	md=3	s=0,6
2.13)	**I can demonstrate how support vector machine algorithms work in Python.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=1,3	md=1	s=0,5
2.14)	**I can demonstrate how support vector machine algorithms work in Python.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,3	md=3,5	s=1
2.15)	**I can explain the concept of Gaussian mixture models.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=3	md=3	s=0,8
2.16)	**I can explain the concept of Gaussian mixture models.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,3	md=3	s=0,5
2.17)	**I can use PCA for dimensionality reduction in Python.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=2	md=2	s=1,2
2.18)	**I can use PCA for dimensionality reduction in Python.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3,3	md=3,5	s=1
2.19)	**I can explain the concepts of feedforward neural networks and convolutional neural networks.**	Very low	Very high	n=4	mw=2,3	md=2,5	s=1

2.20)	**I can explain the concept of feedforward neural networks and convolutional neural networks.**	Very low	Very high	n=4	mw=3,3	md=3,5	s=1
2.21)	**I can demonstrate the training process of simple neural networks in Python.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=1,3	md=1	s=0,5
2.22)	**I can demonstrate the training process of simple neural networks in Python.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3	md=3	s=0,8
2.23)	**I can explain the link between convolutional neural networks and cross correlation.** My skills in this area *before* starting the course	Very low	Very high	n=4	mw=1,5	md=1,5	s=0,6
2.24)	**I can explain the link between convolutional neural networks and cross correlation.** My skills in this area are *now*...	Very low	Very high	n=4	mw=3	md=3	s=0,8
2.25)	**I can lead projects based on large language models (LLMs) in an informed way.** My skills in this area *before* starting the course	Very low	Very high	n=3	mw=1,3	md=1	s=0,6
2.26)	**I can lead projects based on large language models (LLMs) in an informed way.** My skills in this area are *now*...	Very low	Very high	n=2	mw=2	md=2	s=0
2.27)	**I know the most important software engineering principles and instruct my team members to follow them.**	Very low	Very high	n=4	mw=1,8	md=1,5	s=1
2.28)	**I know the most important software engineering principles and instruct my team members to follow them.**	Very low	Very high	n=4	mw=3,3	md=3	s=0,5



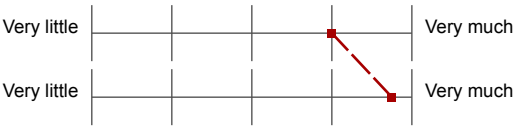
3. Questions about the course (2)

3.1)	Was GitHub a helpful tool for conducting the course?	Not helpful at all	Very helpful	n=4	mw=4	md=4	s=0,8
3.2)	The course follows a clear structure.	Do not agree at all	Fully agree	n=4	mw=4,5	md=4,5	s=0,6
3.3)	The way the course is designed adds to the understanding of the material.	Do not agree at all	Fully agree	n=4	mw=4,5	md=4,5	s=0,6
3.4)	The course has a good mix of knowledge transfer, interactive elements and discussion.	Do not agree at all	Fully agree	n=4	mw=4,3	md=4,5	s=1
3.5)	The instructors are responsive to questions and suggestions.	Do not agree at all	Fully agree	n=4	mw=5	md=5	s=0
3.6)	The instructors clarify the usability and usefulness of the course content.	Do not agree at all	Fully agree	n=4	mw=4,5	md=5	s=1
3.7)	The instructors use good teaching materials (e. g., slides, presentations, bibliography, script) to support the learning process.	Do not agree at all	Fully agree	n=4	mw=4,8	md=5	s=0,5
3.8)	The instructors have good time management skills.	Do not agree at all	Fully agree	n=4	mw=4,8	md=5	s=0,5
3.9)	The instructors express themselves clearly and comprehensively.	Do not agree at all	Fully agree	n=4	mw=4,5	md=5	s=1
3.10)	The instructors encourage active participation in the course.	Do not agree at all	Fully agree	n=4	mw=5	md=5	s=0



4. Questions about the course (4)

4.1)	How much did you learn in this course?	Very little	Very much	n=4	mw=4	md=4	s=0,8
4.2)	How interested were you in the topic ***before*** the course began?	Very little	Very much	n=4	mw=4,8	md=5	s=0,5



Auswertungsteil der offenen Fragen

4. Questions about the course (4)

4.3) What did you like most about the course?

- * I learned a lot about workflows (Github, Python, Visual Studio etc.).
  * Altogether, very good summary of relevant topics.
  * Great assistance/support by tutors during excercises.
- Interaction and Discussions with the tutors. Discussions about single parts of the scripts improved learning a lot.
- Overall good mix of lectures and exercises.

4.4) What could be improved about this course?

- For me too many examples around image classification but of course that depends on the personal use case.
- In the announcement of the course, please be more specific about the requirements (programming skills, mathematical background knowledge etc.).
- More practice. Smaller practical step sizes with group discussions of single steps.

5. Participant statistics

5.1) What is your main field of research?

- Biomedical research
- Biostatistics
- MRI Imaging in neurodegenerative Diseases