Survival and hazard functions

Customizing risk models to individual patients

<u>°</u>

Non-linear risk models with survival trees

Evaluate survival models

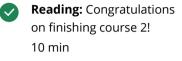
Quiz week 4

Assessment: Cox Proportional Hazards and Random Survival Forests

Programming Assignment:
Cox Proportional Hazards
and Random Survival
Forests
3h

#### Congratulations!

Video: Congratulations!
1 min



Reading:
Acknowledgements
10 min

Reading: Citations
10 min

# Citations

#### Week 1

Dataset is synthetic, so none other than technical references.

Chads-vasc risk score

MELD score

ASCVD+

### Week 2

Data: NHANES I links, references

Data in SHAP library

Also used this <u>notebook</u> by the creator SHAP, Scott Lundberg, as a loose reference when developing the assignment.

### Week 3

<u>Lifelines library</u>

Lifelines is also the source of the dataset. It in turn sources its data from <u>StatsDirect</u>, which takes it from <u>Arbitrage and Berry</u>

## Week 4

PBC Dataset Dataset

Cox Model

Random survival forest

Harrell C-Index

Mark as completed

