deeplearning.ai

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Course Info

Week 1

AI for Medical Prognosis

Week 1

Discuss this week's modules here.

104 threads · Last post 4 days ago

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Linear prognostic models

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Build a linear prognostic model using logistic regression, then evaluate the model by calculating the concordance index. Finally, improve the model by adding feature interactions.
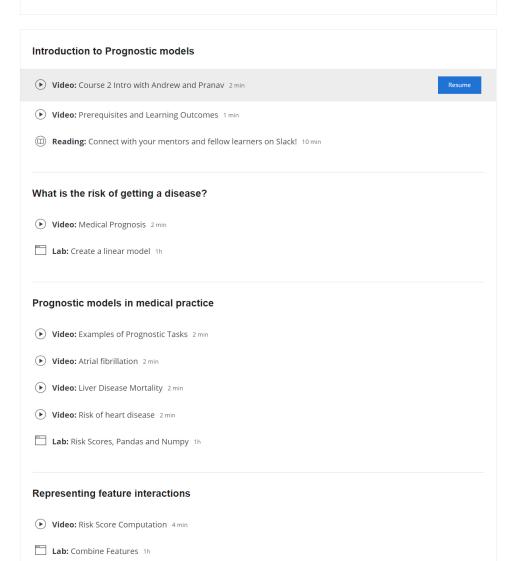

Learning Objectives

- Build a linear prognostic model.
- Evaluate the prognostic model by calculating the concordance index.
- Improve the prognostic model by adding feature interactions.

⌃ **Less**

Introduction to Prognostic models

▶ **Video:** Course 2 Intro with Andrew and Pranav   2 min   **Resume**

▶ **Video:** Prerequisites and Learning Outcomes   1 min

📖 **Reading:** Connect with your mentors and fellow learners on Slack!   10 min

What is the risk of getting a disease?

▶ **Video:** Medical Prognosis   2 min

🖥 **Lab:** Create a linear model   1h

Prognostic models in medical practice

▶ **Video:** Examples of Prognostic Tasks   2 min

▶ **Video:** Atrial fibrillation   2 min

▶ **Video:** Liver Disease Mortality   2 min

▶ **Video:** Risk of heart disease   2 min

🖥 **Lab:** Risk Scores, Pandas and Numpy   1h

Representing feature interactions

▶ **Video:** Risk Score Computation   4 min

🖥 **Lab:** Combine Features   1h

Evaluating prognostic models

Evaluating prognostic models

▶ **Video:** Evaluating Prognostic Models   1 min

▶ **Video:** Concordant Pairs, Risk Ties, Permissible Pairs   2 min

▶ **Video:** C-Index   3 min

▦ **Lab:** Concordance index   1h

Quiz week 1

▤ **Practice Quiz:** Week 1 Quiz   10 questions

Assessment: Build a Linear Risk model

▭ **Reading:** Please save your work regularly   10 min

▭ **Reading:** About the automatic grader   10 min

</> **Programming Assignment:** Build and Evaluate a Linear Risk model   3h   Due Nov 9, 1:59 AM CST

▭ **Reading:** How to refresh your workspace   10 min