edX

UTAustinX: UT.7.01x Foundations of Data Analysis

KarenWest ▾

Courseware   **Course Info**   **Discussion**   **Syllabus**   **Download R and RStudio**   **R Tutorials**   **Readings**   **Contact Us**

Progress   **Office Hours**   **Community**

Reflect on the Question ✓   Analyze the Data ✓   **Draw Conclusions**

Primary Research Question

Denmark is a high-income country, and Belarus is a medium-income country of about the same size. Find the **best-fitting model** for internet usage in each country since 1990. Then answer the question: Does **income level** have an impact on the **speed** with which a country adopts use of the internet?

(5/7 points)

Write Your Conclusion

Answer the question and support your answer with statistics:

The logistic   logistic   model for both Denmark and Balarus fits better than the exponential   exponential model, as shown with a higher R-squared. For Denmark, R-squared values increase from .8001 for the latter model to .9949   .9949   for the former model, and for Belarus, R-squared values rise from .7889   .7889   for the later model

to .9916 for the former model. We see this by examining the scatterplot and the fits of the models (exponential and logistic) to the data. The residual is smaller   smaller   for the logistic model. The speed at which the Internet was adopted in a country is different depending on the country's income. The middle-income country of Belarus is predicted to take approximately 13   15   years to go from 10% adoption to 80% adoption, while Denmark will only take approximately 7   8   years.

Help

Hide Answer   *You have used 1 of 1 submissions*

Terms of Service and Honor Code

Help

About edX

Follow Us

About

News

Contact

FAQ

edX Blog

Donate to edX

Jobs at edX

Twitter

Facebook

Meetup

LinkedIn

Google+