JOHNS HOPKINS
CAREY BUSINESS SCHOOL

BU.610.740: Forecasting Models for Business Intelligence
Chapter 5: Finale

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Spring II, 2024

Topics Covered in These Slides

1. **Course Summary**

2. **Final Exam**

3. **Course Evaluation**

Topics Covered in This Course

- **Introduction** to Time Series Analysis

- **Characteristics** of Time Series

- Time Series **Regression**

- **ARMA** Models and Their Variations

- **Neural** Forecasting

- Challenges with **Big** Time Series Data

- Modeling and Analyzing More than 10 Real-world **Case Studies**

Tech Milestones: Shaping the Future of Forecasting

Bill Gates, Co-founder of Microsoft

- In my lifetime, I have seen two demonstrations of technology that struck me as **revolutionary**: The first was in 1980, when I was introduced to a **graphical user** interface, which led to the invention of Windows. The second occurred more recently, in mid-2022, with the significant breakthrough of **generative AI** technologies like ChatGPT.

Jensen Huang, CEO of NVIDIA

- "Over the last 10-15 years, almost everybody who sits on a stage like this would tell you that it is **vital** that your children learn **computer science**, everybody should learn how to **program**. In fact, it is almost exactly the **opposite**. It is our job to create computing technology such that **nobody** has to program, and that the programming language is human. Everybody in the world is now a programmer. This is the **miracle** of **AI**."

What's Next?

- **Apply Your Knowledge**
  - Participate in forecasting competitions like M-Competitions to test your skills against real problems.

- **Expand Your Learning**
  - Enroll in advanced forecasting courses on platforms like Coursera.
  - Attend key events like the International Symposium on Forecasting (ISF) to connect with experts.
  - The *Business Analytics, AI, and Cherry Blossom* Workshop will be held at Carey in DC in March 2025

- **Stay Engaged**
  - Engage with professionals and join discussions on LinkedIn.

Course Assessment Items

Assessment	Number	Weight
Discussion Questions	5	5%
Written/Coding Assignments	5	25%
Group Project	1	18%
Class Participation	7	7%
Final Exam	1	45%

- I am very **grateful** to Chenxi and Yuxia, the wonderful **TA team**, for promptly and carefully **grading** all assignments with a high level of **accuracy** and **consistency**.

Outline

Preparing for the Final Exam

- Review all **lecture slides** and **class notes**.

- Make an attempt at all **written** and **programming assignments** and compare your solutions with the provided answers.

- If you have any **questions**, please feel free to send me an **email**.

- If you would like to discuss your questions further in a **Zoom meeting**, please let me know and we can **schedule** a meeting.

Final Exam

- The **final exam** will take place during your regular **lecture time** in Week 8

- It is going to be two hours **long** (tentatively) and will **start** at the beginning of the lecture.

- The exam will be **paper-based** and **open-book**.

- Personal **electronic devices**, such as laptops, tablets, mobile phones, and calculators, are **not** permitted for use during the exam.

- If required, the School will provide you with a **scientific calculator** for the exam.

- During the final exam, you may bring only **hard copy** documents (**no digital** copies), but you are **not allowed** to share these documents with your classmates.