Drawing from authoritative professional sources

1. While writing the 8-week lecture modules, I incorporated concepts and examples directly from highly respected, openly accessible professional publications, including:

- AICPA – Data Analytics in Accounting, Audit Data Analytics Guide
- IFAC – Ethics and Technology in the Digital Age
- COSO – Internal Control and Enterprise Risk Management frameworks
- ISACA – CISA Review Manual and IT security principles
- NIST – SP 800-53 Security and Privacy Controls
- Deloitte, EY, PwC, McKinsey – whitepapers on analytics, AI governance, cybersecurity, and finance transformation
- Journal of Accountancy – audit analytics and visualization cases

These sources were used because they reflect the current standards and expectations of the accounting profession, especially in analytics, cybersecurity, and IT governance.

2. Creating original instructor-written lectures, scenarios, and explanations

All core lecture content was written by me to address the actual learning gaps observed in ACCT 551 students since Fall 2023. The lectures break down complex ideas—CIA security, ETL, governance, cybersecurity risks, and audit analytics—into clear, practical explanations tailored to accounting majors.

3. Designing hands-on labs using real-world tools and openly available practice resources

To ensure students gain practical, industry-aligned skills, I built the course labs around the workflows accountants actually use in practice. This included:

- **Tableau Desktop** for KPI dashboards and analytic communication
- **Tableau Prep Builder** for introductory data preparation exposure
- **Alteryx Designer** for ETL processes, joining data, cleansing data, and validating data quality
- **MindBridgeAI** for AI-driven audit analytics and anomaly detection

To support these labs, I used a combination of:

- **AI-generated practice exercises** that I requested specifically for Tableau and Alteryx, tailored to accounting datasets and analytic objectives
- **Free sample datasets** provided by **Tableau** and **Alteryx**, which are publicly available for academic and community use
- **Community cases** shared openly through the Tableau and Alteryx user communities, which offer real-world scenarios, examples, and best practices
- **MindBridgeAI University cases**, which are freely provided for academic instruction and allow students to analyze full-population audit datasets using an AI-enabled platform

This combination of original materials, AI-generated exercises, community datasets, and vendor-provided academic cases creates a **rich, practice-oriented learning environment** while keeping the course fully **no-cost** for students.