

Georgia Institute of Technology

Course Syllabus: INTA 4803/6004 Modeling, Forecasting, and Decision-making

Instructor Information

Professor Jeffrey Borowitz jborowitz3@gatech.edu	Office: None
Office Hours: Available on Request	Class: Tuesdays 5-7:45 in Habersham 136

General Course Information

Description

This seminar style course explores the use of generative AI models, with a focus on their use as aids in the mechanics and understanding of a project in the area of international affairs.

Students will engage in a series of in-class group exercises to identify the strengths, weaknesses, and limits of generative AI tools in a range of different topics. They will also write a research paper using ChatGPT or other AI tools in several steps over the length of the semester. As they write the paper, they will in parallel reflect on how ChatGPT was or was not useful for different aspects of the research endeavor.

Pre- and/or Co-Requisites

There are no prerequisites or co-requisites for this course.

Course Goals and Learning Outcomes

1. Demonstrate the ability to coherently ask a question that can be addressed by a data model or simulation project.
2. Demonstrate the ability to use (potentially with the aid of ChatGPT or other generative AI) statistical computing languages.

Georgia Institute of Technology

Course Syllabus: INTA 4803/6004 Modeling, Forecasting, and Decision-making

3. Demonstrate the ability to find and incorporate relevant data for a modeling task
4. Demonstrate the ability to identify the limits and benefits of generative AI tools to a range of tasks.

Course Materials

There will be no required textbooks. A range of articles and materials will be posted during the class. Students will use of ChatGPT or other generative AI tools and may decide some paid subscription for the duration of the course is appropriate.

Course Website and Other Classroom Management Tools

This class will use Canvas to deliver course materials to online students.

Assignment Distribution and Grading Scale

Here is a list of the assignments and activities required in the course. Except for quizzes, most assignments will have a rubric associated with them so that students can see what criteria are used for grading and what weight is given to them.

Assignment	Weight
Class Participation · Attendance and active participation in class activities	50%

Georgia Institute of Technology

Course Syllabus: INTA 4803/6004 Modeling, Forecasting, and Decision-making

Class Project <ul style="list-style-type: none">· Interim presentations (10%)· In progress submissions (20%)· Final project and presentation (20%)	50%
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Technology Requirements and Skills

To participate in this class, you need the following computer hardware and software:

- Broadband Internet connection
- Laptop or desktop computer with a **minimum** of a 2 GHz processor and 2 GB of RAM
- Windows for PC computers or Mac iOS for Apple computers.
- Complete Microsoft Office Suite or comparable applications and ability to use Adobe PDF software (install, download, open and convert)
- Mozilla Firefox, Chrome and/or Safari browsers

Technology Help Guidelines

30-Minute Rule: When you encounter struggles with technology, give yourself 30 minutes to 'figure it out.' If you cannot, then try to reach out to someone in the class:

- Include a descriptive title for the subject field that clearly states the issue.
- List the steps or describe the circumstance that preceded the technical issue or error. Include the exact wording of the error message.
- When possible, include a screenshot(s) demonstrating the technical issue or error message.
- Also include what you have done to try to remedy the issue (rebooting, trying a different browser, etc.).

Georgia Institute of Technology

Course Syllabus: INTA 4803/6004 Modeling, Forecasting, and Decision-making

Plagiarism & Academic Integrity

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. All students enrolled at Georgia Tech, and all its campuses, are to perform their academic work according to standards set by faculty members, departments, schools and colleges of the university; and cheating and plagiarism constitute fraudulent misrepresentation for which no credit can be given and for which appropriate sanctions are warranted and will be applied. For information on Georgia Tech's Academic Honor Code, please visit <http://www.catalog.gatech.edu/policies/honor-code/> or <http://www.catalog.gatech.edu/rules/18/>.

Any student suspected of cheating or plagiarizing on an assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Plagiarism is the use of material that is not commonly known in formal papers or assignments and passing it off as your own. In this class, this includes submitting papers or discussion posts without citations for the material. All external knowledge **must be properly cited**. If you need assistance with citations or aren't sure what information needs to be cited, please reach out to the teaching team prior to submitting an assignment or review and online citation style guide. Any assignments that contain **plagiarism will be given an automatic 0** and deferred to the Office of Student Integrity.

Note that in this course, use of ChatGPT or other generative AI models is expected and students are ultimately responsible for the content of their work.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services at (404) 894-2563 or <http://disabilityservices.gatech.edu/>, as soon as possible, to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

Subject to Change Statement

The syllabus and course schedule may be subject to change. Changes will be communicated via the Canvas announcement tool, email, or the class Ed Discussion forum. It is the responsibility of students to stay current on course information by keeping track of these communication tools throughout the semester.