ACCT5943
Assessment Information

Assessment Submission

1. When submitting your assessment, please use the following naming convention for each assessment.

   ACCT5943_25T2_A2_T13A_G#

   Where:

   - A2 is the assessment number (A2 for Assessment 2)
   - T13A is the time of the student group's enrolled class
   - G# is the group number allocated to your group by your lecturer

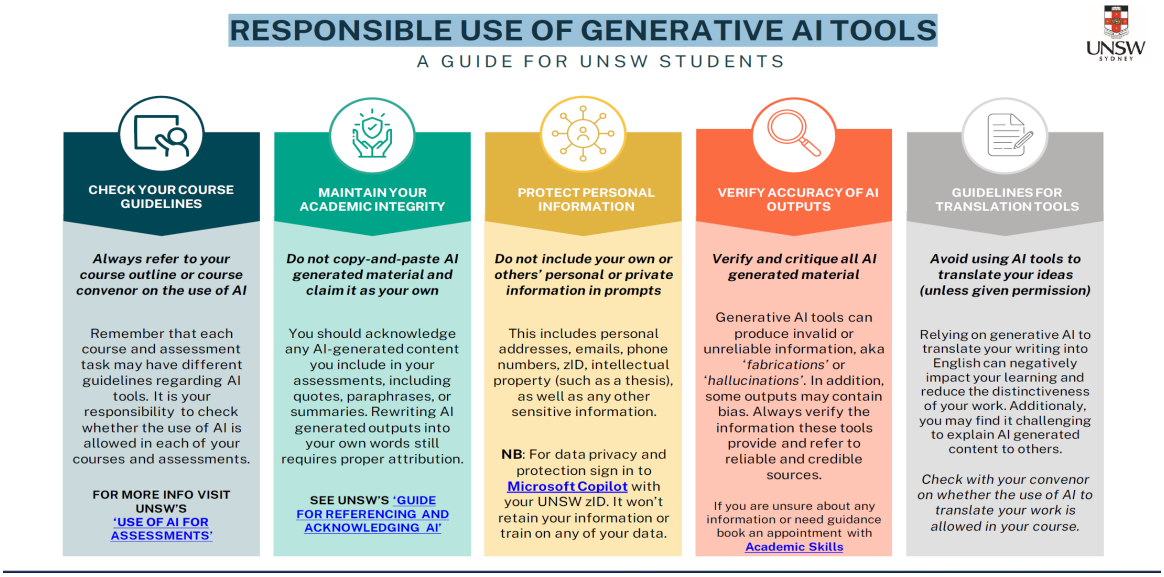
2. You must submit your assessment via the Turnitin link set up in your Moodle course site. Turnitin is similarity detection software used at UNSW.

   You are able to submit a draft version of your assessment prior to the due date. This enables you to view the Turnitin similarity report on your work and decide whether it complies with the guidelines regarding referencing and plagiarism, before you submit your final version for marking. Please be aware that Turnitin will only generate ONE similarity report every 24 hours. Nevertheless, the version of your submission available at the due date will be deemed the final submission.

   More information about plagiarism can be found here: https://student.unsw.edu.au/plagiarism.

3. Use of AI: permission level.

DRAFTING ASSISTANCE	As this assessment task involves some planning or creative processes, you are permitted to use software to generate initial drafts [or ideas, structures, etc]. However, you must develop or edit those ideas to such a significant extent that what is submitted is your own work, i.e., what is generated by the software should not be a part of your final submission. It is a good idea to keep copies of your initial drafts to show your lecturer if there is any uncertainty about the originality of your work. Please note that your submission will be passed through an AI-text detection tool. If your marker has concerns that your answer contains passages of AI-generated text that have not been sufficiently modified you may be asked to explain your work, but we recognise that you are permitted to use AI generated text as a starting point and some traces may remain. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.



4. Late submissions are possible but will be marked as such and will be subject to late penalties of 5% of the assessment weighting for each day late. Saturday and Sunday count as one day each. **Submissions more than 5 working days late will not be accepted**.

5. Extensions to assessment deadline requests must be made through the special consideration process. For details about this process, see: https://student.unsw.edu.au/special-consideration.

6. Assessment tasks, other than the major final assessment, will normally be reviewed, and feedback provided, within 10 working days of submission.

7. Please ensure you keep a copy of your assessment.

Assessment Task: ESG and Data Analytics

Assessment Task	Weighting	Length/Duration	Due Date
ESG using Python analytics Group Report	20%	3,000 words	4pm, Friday 25 July 2025

1. Introduction

For this assessment, students are required to form a group comprising **no more than 6 members**. Group members must enroll in the same class. All members are required to work together to research, design and submit their group reports to the Turnitin portal.

This assessment combines peer-directed and instructor-led learning activities that encourage students to reflect on and engage with concepts in a practical and experiential way. It is designed to challenge students' assumptions and beliefs, and to develop new practices in a way that enhances their understanding of a given topic and a range of professional skills, including Python skills, the ability to work effectively in a diversely constituted team. The teamwork and written reports provide structured occasions for students to take responsibility for their own learning and for engaging in dialogue that draws on prior experience. The project offers opportunities for initiative and creative problem solving. It aims to develop self-awareness, cooperative learning and effective communication skills through the use of different mediums.

2. Instructions

The focus of this project is on environmental, social and governance (ESG) reporting. Each group is required to use the Python codes provided to collect financial statement data, firms' stock prices and ESG risk data to investigate the ESG risk effects on firms' financial returns measured by stock prices using the Ohlsson model. You can find all resources for you to successfully executive the project on Moodle, including instruction videos, Python codes and references to the Ohlsson model.

Please read the following instructions carefully for you to successfully leverage the power of Python to manage your study load efficiently.

1) You must have Google chrome installed on your computer devices and **make it as your default browser**.
2) Follow the video (https://youtu.be/F4-HYXMkXOE) to install Jupyter Notebook.
3) Save the "student_scraper_new.ipynb" and "filtered_sp-500.csv" file in the same folder.
4) Open the "student_scraper_new.ipynb" in Jupyter Notebook, then follow this video (https://youtu.be/4JnPgG8HEGE) to run the

"student_scraper_new.ipynb" file.

5) Note, any line writing following "#" means that line is an explanatory note informing you what the line of codes means. Python understands this line is not a code and will bypass it.
6) All the scraped data files, csv files, and results outputs will be saved in the same folder where you saved the "student_scraper_new.ipynb" and "PythonAnalysis.ipynb" files once you run the codes.
7) Open the "PythonAnalysis.ipynb" file in Jupyter Notebook and run the codes. Do some manipulations if you like, i.e., try different models, generate new variables, etc.
8) Once teams are formed, you lecturer will allocate your team a group number. Replace the allocated group number in the second last line of the code in the "student_scraper_new.ipynb" to collect the data for your project:

```
# TODO: update the group_number to your assigned group number, then click run-all
group_number = 1
```

Replace this with the group # you are assigned

9) Each team must submit their PythonAnalysis codes using the file name: PythonAnalysis_G#.ipynb (# is the allocated group number) and the scraped data using the file name: group_#_data.csv for the markers to verify the codes and result outputs are consistent.

3. Report structure

The report must contain:

- An abstract or executive summary
- An introduction that summaries the research problem, the methodology (archival – conduct research to obtain a good understanding of what archival research is) including the data collection process and the data collected, the Ohlsson model and the empirical results and contributions to the literature. This is the most important part of the report, I recommend spending time as a team to craft this part after all other parts are complete.
- Literature review and hypothesis development focusing on the following areas:
  - ❖ ESG risks and firms' financial returns, why this is an important area that readers want to know (you need to conduct research to support this)
  - ❖ The Ohlsson model, why is it appropriate to address the research question/problem (use the provided references)
- Empirical results
  - ❖ Describe your data including any missing values and possible data cleaning processes, i.e., convert from strings to float, rename data, split data, generate new variables, structure data etc. I have made notes in the "PythonAnalysis.ipynb" file to guide you on this part, please read the file carefully to follow the instructions.

- ❖ Why use Principal Component Analysis (you need to research on this and quote relevant references)
- ❖ Report the correlation matrix heatmap and interpret the correlations.
- ❖ Report the "best fit" model results including model improvements. Interpret the risks in accordance with the model outputs. Groups that simply present the outputs without correct interpretations receive zero marks on this component.

- Sensitive analyses: include the models your team estimated but are not as "best fit" as your chosen model.
- Conclusion and limitations: a summary repeats what the report is about and warns readers of any limitations of the study.

4. Submission Requirements

- Each group is required to submit a 3,000-words report and their PythonAnalysis coding file in ipynb format to the Turnitin link on the course Moodle. Reference list and footnotes are excluded from the word count although I suggest using footnotes sparingly. **Only one member submits the report on behalf of the group**.

5. Grading

The group assessment will be given an overall mark out of 100 and usually all group members get the same mark. However, situations occasionally arise where a group member does not perform their part for the group project. In that case, that group member's mark will be reduced below the overall group mark. Where this has occurred, each member of the group concerned should complete a **Peer Review Form** (a blank copy is available in the 'Assessment 2' section of the course Moodle site) and submit these completed Peer Review Forms via the "Peer Review Form Submission Link" (available in the 'Assessment 2' section of the course Moodle site).

6. **Marking Rubric**

ACCT5943 ESG and Data Analytics Group Assessment Marking Rubric	
Grade	
0-20	The assessment • is not submitted, or • contains several critical factual or technical errors; or/and • does not address the topic or demonstrate any reasonable research effort; or/and • contains many grammatical and syntax errors that makes the assessment hard to follow.
21-50	The assessment • has a structure that is clear and easy to follow; • uses basic visual aids such as tables, figures, etc. (if needed), although not always appropriate; • addresses most of the questions but involves some irrelevant comments; • demonstrates some but limited research effort; • makes a reasonable effort in the "empirical analysis" section; and • is mostly free of critical factual or technical errors.
51-75	The assessment • is well organised and well communicated and well-reasoned; • uses concise, accurate language throughout; • uses appropriate visual aids such as tables, figures, etc. (if needed); • addresses all of the questions and is free of irrelevant comments; • demonstrates a good level of research effort; • makes a good effort in the "empirical analysis" section; • makes a good effort in the "introduction" section; • maintains cohesion across the different parts of the assessment; and • presents result outputs that are properly interpreted in light of the hypotheses developed; and • is free of critical factual or technical errors.
76-85	The assessment • is well organised and well communicated; • uses concise, accurate language throughout;

	• cleverly uses of visual aids such as tables, figures, etc. (if needed) that help demonstrate complex details; • cleverly uses of diagrams, line charts etc., to show the reporting trends and impacts on firm values (if any) over the last few years (in the scraped data); • draws appropriate connections across the different parts of the assessment; • contains well-articulated critiques where needed; • addresses all of the questions in depth and is free of irrelevant comments; • demonstrates extensive research effort to convey an excellent argument (80-85 marks range); • makes an outstanding effort in the "empirical analysis" section (80-85 marks range); • makes an outstanding effort in the "introduction" section (80-85 marks range); • maintains cohesion across the different parts of the assessment; and • is free of critical factual or technical errors.
0-10	The group has submitted the Python coding file and the group_#_data.csv file, and the files contain data and codes that can be easily verified against the report content.
11-15	The group has demonstrated, in the Python coding file, that they have used different codes to perform Exploratory Data Analysis and conduct Regression Analysis under different model specifications; and the coding file and data file contain data and codes that can be easily verified against the report content. ****For groups who are Python savvy, include the codes you created (that are not in the provided PythonAnalysis.ipynb) in the report as an Appendix, to avoid risking your codes being not verifiable.**