

ANL588 Applied Project

Level: 5

Credit Units: 10 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY REGULAR SEMESTER

Synopsis:

ANL588 Applied Project provides students the opportunity to develop a portfolio that demonstrates their knowledge and skills in employing data analytics and/or workflow automation in solving a real-world business problem. Students are expected to identify, design, and implement an organisation-relevant digitalisation project using the appropriate combination of tools for data visualisation, machine learning and automation, and present and defend their project at periodic checkpoints during this course. Students are also expected to participate in mentoring sessions with their project advisors and seminars on the theory and practice of data analytics using R and Python.

Topics:

- Problem identification
- Data needs
- Project design
- Project proposal
- Project planning and establishing milestones
- Implementing data acquisition stack
- Implementing analytics stack
- Implementing visualisation stack
- Recommendations based on insights generated
- Data visualisation storyboarding
- Project Report Writing
- Project Presentation

Textbooks:

Data Science for Business: What You Need to Know about Data Mining and Data-Analytic Thinking
Foster Provost, Tom Fawcett O'Reilly Media
ISBN-13: 9781449374280

Learning Outcome:

- Evaluate the suitability of possible analytics methodologies for the project proposal
- Critique the effectiveness of the proposed solution
- Defend project results to peers and supervisors
- Plan the project timeline and milestones to be achievable in the given timeframe
- Design and implement a full analytics stack that meets the needs of the project
- Create impactful data visualisations and storyboards for effective communication of insights and recommendations for decision making

Assessment Strategies - Regular Semester (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PROJECT PROPOSAL 1	15
	PRESENTATION 1	20
	PARTICIPATION 1	5
Overall Examinable Components	FINAL REPORT	40
	FINAL PRESENTATION	20
Total		100

*The information listed is subject to review and change.