

Apollo

Never stop learning, because life
never stops teaching



Apollo is our 2-Day Data Analytics Advanced Course (using R)

This course is especially designed to cater for people who wishes to deepen their analytics and R programming skills

- This course assumes that you have basic R programming and data analytics know-how. Learners are strongly encouraged to take our “Prometheus” course prior to this, as many of the concepts covered in this course will be built upon earlier fundamental knowledge.
- The focus of this course would be to combine advanced data visualisation techniques with machine learning to perform sense making. For example, learners will be able to use these concepts to perform cluster analysis (such as customer segmentation, competitor analysis, etc) and to visualise and interpret the results.





Course Outline

- Day 1:
 - Advanced data manipulations and data preprocessing using the tidyverse package in R.
 - Programming fundamentals, and creating customized functions to facilitate analysis.
 - Advanced visualization techniques using GGPlot2 and Plotly.
 - Understanding Decision Tree model, and applying it to tease out insights from real world datasets.
 - Understand Decision Forest model, and applying it to enhance the result of Decision Tree model.





Course Outline

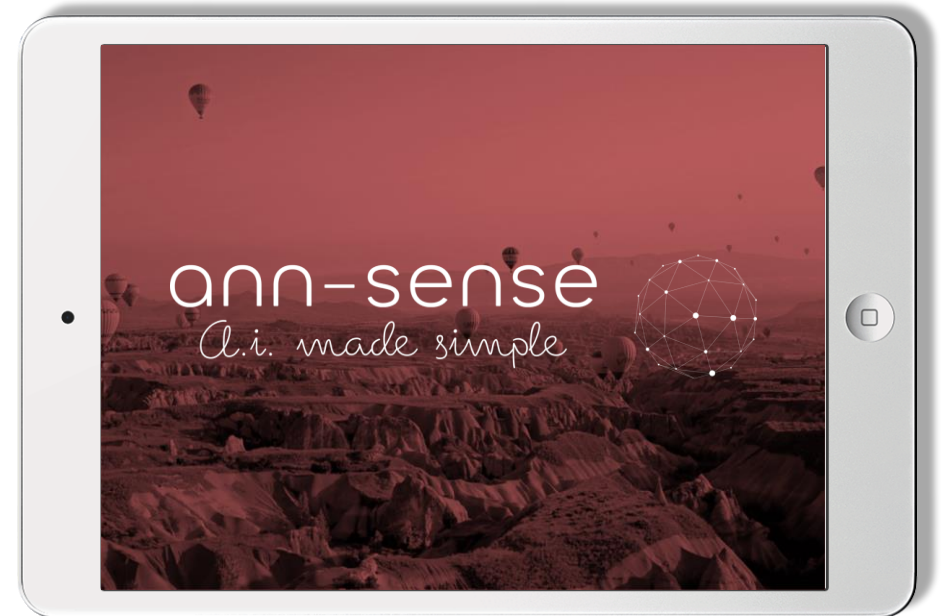
- Day 2:
 - Understanding Principal Component Analysis (PCA), and the concept of dimensionality reduction.
 - Applying PCA on a complex real world dataset to tease out key insights that are more interpretable.
 - Understanding the nuts and bolts of Cluster Analysis models. We shall be touching on agglomerative clustering and k-means clustering approaches.
 - Combining PCA and cluster analysis models on a complex real world dataset to perform market segmentation. We shall then apply advanced 3D visualization tool to visualize and interpret the insights.





Learning Outcomes

- At the end of this course, participants should be able to:
 - Perform advanced data manipulations to pre-process raw data for analysis.
 - Reduce complex datasets into its core components, so as to tease out key insights that are more interpretable and hence more actionable. (*Generating insights from data that is simple and easy to understand will improve stakeholders' buy-in.*)
 - Analyse, visualize, and interpret insights from results of learnt models (i.e. decision tree, decision forest, PCA, and clustering).





Who should Attend?

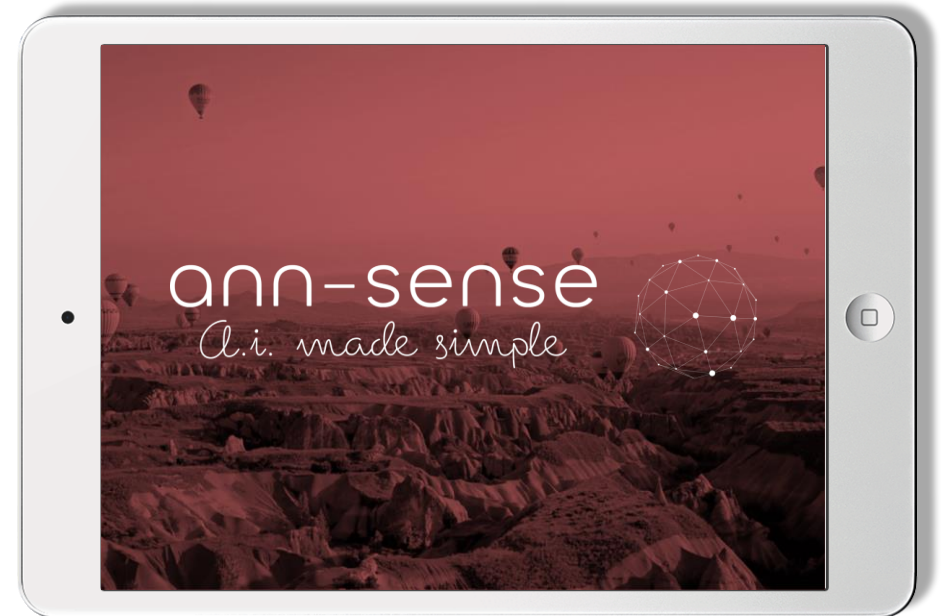
- Existing working professionals looking to future-proof their career.
- Forward-looking professionals who wanted to learn the essential concepts so that they can apply the learnings and make transformative changes in the organisations they worked for.
- Competitive students in tertiary institutions who are looking to grasp the essential concepts and practising it prior to formerly learning it in school.
- Graduates (or graduates-to-be) from tertiary institutions looking to upskill to improve their chances of entering the workforce.





Availability and Pricing

- The availability of this course is tbc, conducted between 10am-5pm over 2 days.
- This course is conducted 100% online via zoom.
- Course Fee: \$4000 (** early bird-discount available, do contact us for details)





Hardware Requirements

- For best online learning experience, learners are advised to have the following hardware requirements:
 - Microphone and headset.
 - Desktop / laptop with at least 8GB of RAM, and 20GB hard-disk. Learners are advised not to use their corporate laptops for the lesson as there may be software installation conflicts with in-house security policies and software.
 - A reliable internet connection.
 - A separate monitor that can connect to the computer. While this is not mandatory, but it would definitely improve the learning experience as learners can view on one screen and code in another.



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CONTACT US

We focus on making your learning journey a pleasant and relatable experience

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