

DATA SCIENCE MASTERCLASS

Master the fundamentals
of supervised learning in
Data Science

DATE

16TH FEB | 8:30am - 6:00pm

Fee Structure
Ksh. 8,000/-

*includes lunch

Overview

This master class has been **designed to help you develop a toolset for solving supervised learning problems** by diving into practical aspects of linear regression, generalised linear regression, KNN and decision trees. **You will learn of the best use cases of these algorithms and later on solve real-life supervised learning problems of varying difficulty** that will help you become a highly skilled data science expert in the industry. During this master class, you will use locally sourced datasets and be taught by an experienced Data Scientist.

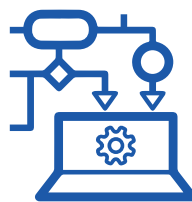
Learning Outcomes



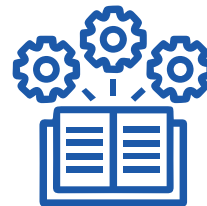
Perform data cleaning and exploratory data analysis effectively



Identify and test relationships between variables.



Solve Supervised learning problems by applying a variety of learning algorithms to data.



Evaluate the performance of your machine learning models.



Demonstrate communication skills that facilitate the effective presentation of data modelling to relevant stakeholders.

Course Outline

| Topics | Description | Deliverables |
|------------------------------------|---|---|
| R Basics (Sprint) | Perform fundamental programming operations using R. | R Problem Set I |
| Cleaning Data in R (Sprint) | Apply data cleaning techniques using R. | Clean messy DataSets I and II |
| Exploratory Data Analysis (Sprint) | Use data manipulation and visualisation skills to uncover the structure of a dataset. | EDA Problem Set I |
| Supervised Learning (Deep dive) | Learn essential supervised machine learning models, how to train these models in R, how to evaluate their performance and use them to make predictions. | Linear Regression Exercise I Generalised Linear Regression Exercise I KNN Exercise I Decision Trees Exercise I |
| Presentations | Timed Presentation | |

Who Should Attend

Individuals who enjoy statistical and analytical thinking may excel in this course. In addition, familiarity with R Programming language is considered a bonus but is not a mandatory requirement.

Expert Led



Kamande Wambui
Lead Data Scientist at mSurvey

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Kamande Wambui currently leads Data Science at mSurvey, a platform that powers Integrated Customer Experience in Africa. In this role, he provides data support for current products and develops new Data products to drive consumer understanding through advanced analytics and machine learning. These products leverage on integration of structured but high velocity mobile phone engagement data from consumers and available client data.

Kamande previously worked at Nielsen as a Data Science Associate for East Africa. He supported the Commercial team to deliver Quality Retail Data to clients and delivered technical consultancy on Data Science related retail audit queries across FMCG categories. He was also part of the Global Emerging leaders at Nielsen.

He holds a Masters' degree in Statistics and a Masters' degree in Computational Intelligence from The University of Nairobi. He has published papers on understanding the Consumption and viewing habits of the Kenyan consumer by using various algorithms and locally available data in several peer reviewed journals.



How to Apply

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