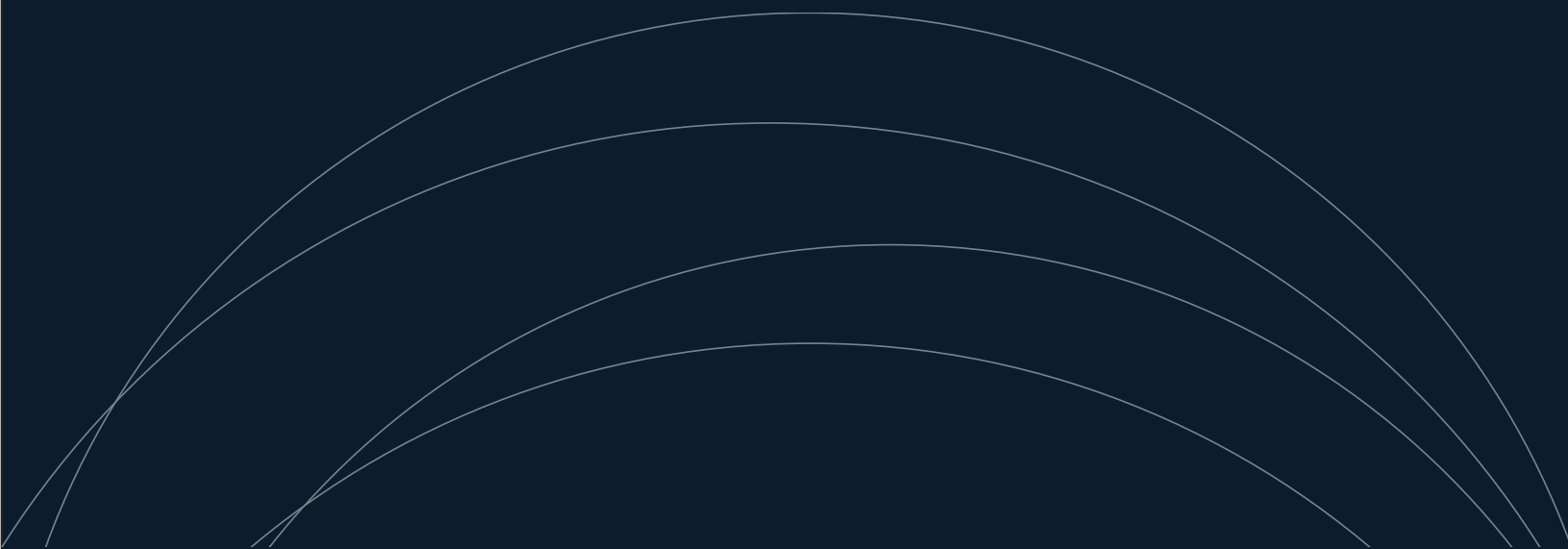




WeCloudData

APPLIED MACHINE LEARNING

COURSE & SYLLABUS INFO



ABOUT THE PROGRAM

THE STUDENTS

This weekend-based part-time course is suitable for students who want to learn practical Machine Learning skills.

Students who want to enroll in this course should have acquired fundamental knowledge and skills of Python programming and statistics.

WHO IS THIS COURSE FOR?

New graduates and job seekers

This course teaches you the essential machine learning skills required for data scientist jobs

SAS or R predictive modelers

This course will give you a smooth transition to the Python machine learning ecosystem

For AI enthusiasts at the beginner stage

This course will help you build the essential foundations for taking on advanced deep learning research

For developers and engineers

This course teaches you the machine learning tools you need to build interesting applications

For tech-savvy product managers

The course gives you a comprehensive understanding of machine learning use cases and lifecycles, and the necessary hands-on experience to grasp the gist of machine learning

PROGRAM DETAILS

9 +4 WEEKS

of program duration

1 PREP SESSION

on Math Foundations

WEDNESDAY

6:30PM - 9:30PM EST

SATURDAY

9:00AM - 5:00PM EST

90 HOURS

of lectures and labs

2 PROJECTS

to build your portfolio

LEARNING OUTCOMES

- Learn most popular ML algorithms
- Learn popular ML tools
- Feature Engineering, Screening, and Selection
- Real-world use cases taught by real-life data science practitioners
- Complete 2 hands-on projects



A great place to learn and practice data science. I am taking the Machine Learning course currently, and the instructor is amazing, and I get a lot of hands-on exercises, and feedback. I like that the course is not only teaching you how to code, but also teach you the fundamental theories of each tool, and how to apply in the real-life business problems. I highly recommend all their courses to anyone who wants to become a data scientist.

- Minjung Koo -

CURRICULUM

9 weeks

WEEK 1 Math for Machine Learning	WEEK 2 Machine Learning
<ul style="list-style-type: none">• Math for ML: Statistics• Math for ML: Linear Algebra• Math Interview Practice	<ul style="list-style-type: none">• Introduction to Machine Learning• Exploratory Analysis (EDA)• Regression Analysis
WEEK 3 Machine Learning	WEEK 4 Machine Learning
<ul style="list-style-type: none">• Classification - Logistics• Classification - Decision Trees• Feature Selection	<ul style="list-style-type: none">• Model Evaluation• Classification - Ensemble Models (Random Forest)• Classification - Boosting Trees
WEEK 5 Machine Learning	STUDY BREAK Capstone Project #1
<ul style="list-style-type: none">• Classification - Feature Engineering & Pipelines• Classification - Model Interpretation	<ul style="list-style-type: none">• Capstone Project #1: Machine Learning
PRESENTATION Capstone Project #1	WEEK 6 Advanced Machine Learning
<ul style="list-style-type: none">• Capstone Project #1: Presentation	<ul style="list-style-type: none">• Unsupervised Learning: K-Means Clustering• Dimension Reduction
WEEK 7 Advanced Machine Learning	WEEK 8 Advanced Machine Learning
<ul style="list-style-type: none">• NLP Introduction: Text Processing• Text Embedding	<ul style="list-style-type: none">• Deep Learning: Neural Networks• Computer Vision: CNN
WEEK 9 Advanced Machine Learning	STUDY BREAK Capstone Project #2
<ul style="list-style-type: none">• NLP: Recurrent NN, LSTM• NLP: BERT	<ul style="list-style-type: none">• Capstone #2 - Machine Learning and Data Visualization Challenge (Tableau/PowerBI)
PRESENTATION Capstone Project #2	
<ul style="list-style-type: none">• Capstone #2 - Machine Learning and Data Visualization Challenge (Tableau/PowerBI)• Capstone #2 - Presentation	

INSTRUCTORS



Rogelio Cuevas

*Data Science, Director
@ Sun Life Financial*



Ken Ding

*Senior Manager, Credit Risk
Modeling – Decision Science
@ BMO Financial Group*



TUITION, GRANTS AND FINANCE OPTIONS

\$2,500
CAD

DO YOU KNOW THAT MOST EMPLOYERS WILL REIMBURSE THE TRAINING COSTS?

- We have a detailed course syllabus and email template that you can use to convince your manager that this is the right course for you and a good investment for your company
- You will have a completed project and presentation that you can use to demo to your manager and showcase your newly minted data engineering skills and get ready for more challenging projects



QUESTIONS?

Contact our program advisor, Amir, for more information amir.asadian@weclouddata.com