



POLYFINANCES

DATATHON 2024

COMPETITION



IMPORTANT RESOURCES



**BANQUE
NATIONALE**

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Resources for AI & Machine Learning

Course	Description	Duration
<u>Machine Learning Learning Plan</u>	Enroll in a Learning Plan, a curated collection of learning content focused on machine learning in the cloud. This Learning Plan is designed to help Data Scientists and Developers integrate machine learning (ML) and artificial intelligence (AI) into tools and applications. The digital training included in this Learning Plan will expose you to the broadest and deepest set of machine learning services and supporting cloud infrastructure. This Learning Plan can also help prepare you for the AWS Certified Machine Learning - Specialty certification exam.	32 Hours 6 Courses
<u>Generative AI Essentials for Business and Technical Decision Makers Learning Plan</u>	This learning plan is designed to introduce generative AI to the business and technical decision makers. The digital training included in this learning plan will provide an overview of generative AI, and the approach to plan a generative AI project and to build a generative AI-ready organization.	3 Hours 4 Courses
(Included in the Learning Plans) <u>Introduction to Machine Learning: Art of the Possible</u>	Fundamental: After taking this set of courses, you'll understand how artificial intelligence (AI) led to machine learning (ML), which then led to deep learning (DL).	30 min
<u>Amazon Bedrock - Getting Started</u>	Fundamental: Amazon Bedrock is a fully managed service that offers leading foundation models (FMs) and a set of tools to quickly build and scale generative AI applications. The service also helps ensure privacy and security. In this Getting Started course, you will learn about the benefits, features, typical use cases, technical concepts, and cost of Amazon Bedrock. You will also review an architecture that uses Amazon Bedrock, along with other Amazon Web Services (AWS) offerings, to build a chatbot solution. Through a guided tutorial consisting of a narrated video, step-by-step instructions, and transcript, you will try Amazon Bedrock in your AWS account.	1 hour

Resources for *Finance*

Financial Analysis : <https://www.investopedia.com/terms/f/financial-analysis.asp>

Financial Statements Analysis :

- <https://www.investopedia.com/terms/f/financial-statement-analysis.asp>
- <https://www.cpacanada.ca/business-and-accounting-resources/audit-and-assurance/canadian-auditing-standards-cas/publications/understanding-reports-on-financial-statements>

Business Valuation : <https://www.investopedia.com/terms/b/business-valuation.asp>

Company reports : <https://www.morningstar.com/help-center/stocks/company-reports>

Annual reports examples <https://drive.google.com/drive/u/1/folders/17c53McnRREsiBPMkfsOeaHIYvSQ4RWW>

Yahoo Finance API : <https://algotrading101.com/learn/yahoo-finance-api-guide/>

AlphaVantage API : <https://www.alphavantage.co/>

Finance KPIs:

- <https://insightsoftware.com/blog/35-finance-kpis-and-metric-examples/>
- <https://www.jedox.com/en/blog/financial-kpis/>
- <https://www.edcparis.edu/fr/blog/performance-financiere>

Resources for *Data Visualization*

QuickSight :

- <https://docs.aws.amazon.com/quicksight/latest/user/example-create-an-analysis.html>
- <https://www.youtube.com/watch?v=9pEhI2kwq7Y>
- <https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/build-an-etl-service-pipeline-to-load-data-incrementally-from-amazon-s3-to-amazon-redshift-using-aws-glue.html>

Data Visualization with Python :

- <https://www.coursera.org/learn/python-visualization?action=enroll>
- <https://plotly.com/>

Resources for *Presentation*

Storytelling :

- <https://www.storytellingwithdata.com/blog>
- https://www.youtube.com/watch?v=r5_34YnCmMY

Architecture :

- https://aws.amazon.com/what-is/architecture-diagramming/?nc1=h_ls
- <https://aws.amazon.com/fr/architecture/icons/>
- <https://app.diagrams.net/>

Video demonstration :

- <https://obsproject.com/>
- <https://www.loom.com/>

Stay tuned for more updates
datathon.polyfinances.ca

NOVEMBER

2-3

48 HOURS



**POLYTECHNIQUE
MONTRÉAL**

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