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DATATHON 2024
COMPETITION

IMPORTANT
RESOURCES

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Resources for *AI & Machine Learning*

Course	Description	Duration
Machine Learning Learning Plan	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
Generative AI Essentials for Business and Technical Decision Makers Learning Plan	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) Introduction to Machine Learning: Art of the Possible	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
Amazon Bedrock - Getting Started	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

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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/17c53Mcn_RREsiBPMkfsOeaHlYvSQ4RWW

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
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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/
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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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