How AI Works

AI Made Easy for Decision Makers

December, 2023

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# About this Course

This is the series of courses in Fred Hutch DaSL’s “AI for Decision Makers” specialization on Coursera.

## 0.1 Specialization Sections

* Introduction
* Course 1: AI Possibilities
* Course 2: Avoiding AI Harm
* Course 3: Establishing AI Infrastructure
* Course 4: AI Policy

## 0.2 Available course formats

This course is available in multiple formats which allows you to take it in the way that best suites your needs. You can take it for certificate which can be for free or fee.

* The material for this course can be viewed without login requirement on this [Bookdown website](LINK%20HERE). This format might be most appropriate for you if you rely on screen-reader technology.
* This course can be taken for [free certification through Leanpub](LINK%20HERE).
* This course can be taken on [Coursera for certification here](LINK%20HERE) (but it is not available for free on Coursera).
* Our courses are open source, you can find the [source material for this course on GitHub](LINK%20HERE).

# 1 VIDEO Summary of This Course

# 2 Introduction

## 2.1 Motivation

## 2.2 Target Audience

The course is intended for …

## 2.3 Curriculum

The course covers…

# 3 Introduction to AI Possibilities

## 3.1 Motivation

## 3.2 Target Audience

The course is intended for …

## 3.3 Curriculum

The course covers…

# 4 What Is AI

Start off with actual uses/case studies/examples What AI is (and what it is not)

# 5 VIDEO What Is AI and What It Is Not

# 6 VIDEO How AI Works

# 7 How AI Works

# 8 VIDEO Different Types of AI

# 9 Types of AI

How they work..

# 10 VIDEO Real Life Possibilities

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# 11 What Is Possible

What is possible with AI? What’s still fantasy?

# 12 VIDEO What Is Possible

# 13 VIDEO What Is NOT Possible

# 14 Ground Rules for AI

Ground rules - don’t do bad things with AI!

# 15 VIDEO Knowing the Ground Rules

# 16 Introduction to Avoiding AI Harm

## 16.1 Motivation

## 16.2 Target Audience

The course is intended for …

## 16.3 Curriculum

The course covers…

# 17 Introduction to Establishing AI Infrastructure

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## 17.2 Target Audience

The course is intended for …

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The course covers…

# 18 Introduction to AI Policy

## 18.1 Motivation

## 18.2 Target Audience

The course is intended for …

## 18.3 Curriculum

The course covers…

# About the Authors

These credits are based on our [course contributors table guidelines](https://www.ottrproject.org/more_features.html#giving-credits-to-contributors).

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## ─ Session info ───────────────────────────────────────────────────────────────  
## setting value   
## version R version 4.0.2 (2020-06-22)  
## os Ubuntu 20.04.5 LTS   
## system x86\_64, linux-gnu   
## ui X11   
## language (EN)   
## collate en\_US.UTF-8   
## ctype en\_US.UTF-8   
## tz Etc/UTC   
## date 2023-12-07   
##   
## ─ Packages ───────────────────────────────────────────────────────────────────  
## package \* version date lib source   
## assertthat 0.2.1 2019-03-21 [1] RSPM (R 4.0.5)   
## bookdown 0.24 2023-03-28 [1] Github (rstudio/bookdown@88bc4ea)   
## cachem 1.0.7 2023-02-24 [1] CRAN (R 4.0.2)   
## callr 3.5.0 2020-10-08 [1] RSPM (R 4.0.2)   
## cli 3.6.1 2023-03-23 [1] CRAN (R 4.0.2)   
## crayon 1.3.4 2017-09-16 [1] RSPM (R 4.0.0)   
## desc 1.2.0 2018-05-01 [1] RSPM (R 4.0.3)   
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## evaluate 0.20 2023-01-17 [1] CRAN (R 4.0.2)   
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## fs 1.5.0 2020-07-31 [1] RSPM (R 4.0.3)   
## glue 1.4.2 2020-08-27 [1] RSPM (R 4.0.5)   
## htmltools 0.5.5 2023-03-23 [1] CRAN (R 4.0.2)   
## knitr 1.33 2023-03-28 [1] Github (yihui/knitr@a1052d1)   
## magrittr 2.0.3 2022-03-30 [1] CRAN (R 4.0.2)   
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## pkgload 1.1.0 2020-05-29 [1] RSPM (R 4.0.3)   
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## processx 3.4.4 2020-09-03 [1] RSPM (R 4.0.2)   
## ps 1.4.0 2020-10-07 [1] RSPM (R 4.0.2)   
## R6 2.4.1 2019-11-12 [1] RSPM (R 4.0.0)   
## remotes 2.2.0 2020-07-21 [1] RSPM (R 4.0.3)   
## rlang 1.1.0 2023-03-14 [1] CRAN (R 4.0.2)   
## rmarkdown 2.10 2023-03-28 [1] Github (rstudio/rmarkdown@02d3c25)  
## rprojroot 2.0.3 2022-04-02 [1] CRAN (R 4.0.2)   
## sessioninfo 1.1.1 2018-11-05 [1] RSPM (R 4.0.3)   
## stringi 1.5.3 2020-09-09 [1] RSPM (R 4.0.3)   
## stringr 1.4.0 2019-02-10 [1] RSPM (R 4.0.3)   
## testthat 3.0.1 2023-03-28 [1] Github (R-lib/testthat@e99155a)   
## usethis 1.6.3 2020-09-17 [1] RSPM (R 4.0.2)   
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##   
## [1] /usr/local/lib/R/site-library  
## [2] /usr/local/lib/R/library

# 19 References