

Coursera完全に理解した

@unsoluble_sugar

2021/05/27
エンジニア達の「〇〇完全に理解した」Talk #17

自己紹介



@unsoluble_sugar

Yukai Engineering Inc. / Project Manager

Tech Hunter / Blogger, App Engineer

Easy Easy / Organizer - PR

Otaku / Game, Anime, Gadget

Courseraとは

- MOOCs (Massive Open Online Courses)
- オンラインで学べる教育プラットフォーム
- スタンフォード大学コンピュータサイエンス教授が創立
- 世界最高峰の大学や企業の職員が講師



<https://www.coursera.org>

世界各国の大学・企業と提携

2012年の公開以来、世界53カ国、241の大学・企業と提携。7,382の講座を提供。
(2021年5月現在)

言語は英語ベース。スペイン語、ロシア語、中国語等で提供されているコースもあり。

Meet our Partners

241 partners | across 53 countries | offering 7,382 courses

All Countries and Regions | Argentina | Australia | Brazil | Canada | Chile | China | Colombia | Denmark | France | Germany | Hong Kong | India | Ireland | Israel | Italy | Japan | Mexico | Netherlands | Russia | Singapore | South Africa | South Korea | Spain | Sweden | Switzerland | Taiwan | Turkey | United Kingdom | United States

(ISC)²
Advancing Women in Tech

amii
Alberta Machine Intelligence Institute

ACADEMY
Alibaba Cloud Academy

aws
Amazon Web Services

AMERICAN MUSEUM OF NATURAL HISTORY
American Museum of Natural History

ASU
ARIZONA STATE UNIVERSITY
Arizona State University

Association of International Certified Professional Accountants

ATLASSIAN
Atlassian

AUTODESK
Autodesk

<https://www.coursera.org/about/partners>

ARTICLES



フリーワードを入力

検索

「Courseraにおけるインタラクティブ・ティーチング」
開講のお知らせ

 Leap Together on MOOC!
Interactive Teaching

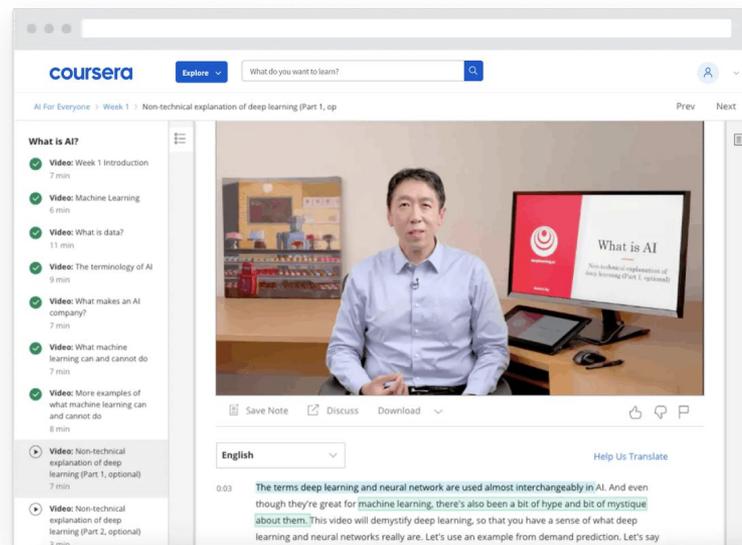


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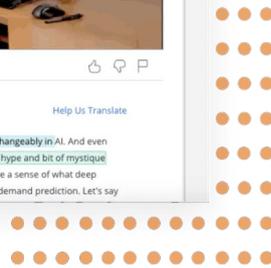
受講形式

主に以下内容が1セクションのセットとなっている

- 動画での講義
- テキストベース資料で学習
- 練習問題
- ユーザーコミュニティでのディスカッション
- 試験



The screenshot displays the Coursera interface for a video lecture. The top navigation bar includes the Coursera logo, an 'Explore' dropdown, a search bar with the text 'What do you want to learn?', and a user profile icon. Below the navigation, the breadcrumb trail reads 'AI For Everyone > Week 1 > Non-technical explanation of deep learning (Part 1, optional)'. The main content area is split into two columns. The left column, titled 'What is AI?', contains a list of video lessons with their durations: 'Video: Week 1 Introduction (7 min)', 'Video: Machine Learning (6 min)', 'Video: What is data? (11 min)', 'Video: The terminology of AI (9 min)', 'Video: What makes an AI company? (7 min)', 'Video: What machine learning can and cannot do (7 min)', 'Video: More examples of what machine learning can and cannot do (8 min)', 'Video: Non-technical explanation of deep learning (Part 1, optional) (7 min)', and 'Video: Non-technical explanation of deep learning (Part 2, optional) (3 min)'. The right column features a video player showing a man in a light blue shirt sitting at a desk with a computer monitor. The monitor displays a slide titled 'What is AI' with a red and white logo. Below the video player are buttons for 'Save Note', 'Discuss', 'Download', and a share icon. A language dropdown menu is set to 'English', and a 'Help Us Translate' link is visible. At the bottom of the video player, a subtitle reads: '0:03 The terms deep learning and neural network are used almost interchangeably in AI. And even though they're great for machine learning, there's also been a bit of hype and bit of mystique about them. This video will demystify deep learning, so that you have a sense of what deep learning and neural networks really are. Let's use an example from demand prediction. Let's say



Overview

Week 1

Week 2

Week 3

Week 4

Grades

Notes

Discussion Forums

Messages

Resources

Course Info

Foundations of Project Management

by Google



WEEK 4

Overview of Classic and Matrix structures

It'll take about 5 min. After you're done, continue on and try finishing ahead of schedule.

Start

Week 4

Estimated Time: 3h 34m

Organizational structure and culture

Videos 38 min left

Readings 1h 30m left

Practice Exercises 16 min left

Other 35 min left

REQUIRED

GRADE

DUE

Quiz
Weekly Challenge 4
35 min

Jun 7
3:59 PM JST

セクション単位で数週間、数ヶ月かけて学習を進めていく流れ

動画での講義が主体

- テキストがついており、英語以外の言語にも対応
- 日本語対応のコースもあるがごく少数
- 座学の練習問題は選択式や自由記述形式
- プログラミング系は仮想環境で手を動かしてコードを読み書き

Foundations of Project Management > Week 1 > What is project management? < Previous Next >

Getting started with the program

Understanding the basics of project management

- ✓ Video: What is project management? 4 min
- ✓ Video: What does a project manager do? 3 min
- ✓ Video: Transferable project management skills 3 min
- ✓ Video: Xi Path to becoming a project manager 2 min

Learning about careers in project management

Review: Embarking on a career in project management

What is project management?

1:00



Save Note Download

Share

English

Help Us Translate

0:00 Hey, again! Let's get back into it. In this video, we'll define a project, define project management, and explain its value to an organization. Let's start by defining exactly what a project is. A project is a unique endeavor, and usually includes a set of unique deliverables. It's also a temporary pursuit. It has a defined beginning and an end. To put it another way, a project is a series of tasks that need to be completed to reach a desired outcome. Reaching that desired outcome takes collaboration and careful planning that keeps the project on track and on budget. That's where project management comes in. Project management is critical to the success of projects both big

試験

- 一定以上の点数を期間内に獲得する必要あり
- 未到達の場合は数週間後に再試験
- すべての学習コンテンツを終え試験をクリアすると認定証が発行される
- 認定証はWebで閲覧可能
- LinkedInの資格欄に記載できる
- 達成感ある



料金について

基本は無料

- 無料で学べる講座が多数
- 課題採点や認定証の取得には料金がかかる
- 無料の受講では課題の採点やフィードバックがなく受動的になりがち

課金

- 講座単位で大体5千円/月程度
- 7日間の無料トライアルあり
- 現場のプロ(GoogleやIBMなど)による講義を受けられるので安価に感じる



時勢にあった講座も

- COVID-19 Contact Tracing (接触確認) のコースがあったので受講してみた
- ウイルスそのものに対する知見や、感染患者との対応について
- 有識者の情報を実情に沿った形で学習できた



<https://www.coursera.org/account/accomplishments/verify/J6DFJ7BVGVMVR>

メリット①

自分のペースで学べる

- ただし定められた期間内に完了する必要あり
- 署名とコミットメントを推奨される
- 誓約することで完了の確度が高まる

メリット②

英語力

- リスニング力を鍛えるには良いかも
読み書きもあり
- とはいえ正直厳しいので..
DeepL等の翻訳サービスを併用
- 英語が理解できれば学べるコース、スキルを生かせる場も増えるので頑張りたい

メリット③

コンテンツの質が高い

- コンピューターサイエンス、ビジネス、言語学習、物理、数学、社会科学、健康、芸術など多岐にわたる
- その分野の権威、有識者が講師
- 動画や字幕、講義スライドのDLが可能

Popular in Software Engineering

The image displays four course cards in a row. Each card features a logo, a title, an institution name, and a 'COURSE' label with a bookmark icon. A right-pointing arrow is located to the right of the cards.

- Agile Software Development**
University of Minnesota
- Foundations of Project Management**
Google
- Fundamentals of Project Planning and Management**
University of Virginia
- Technology Leadership and Entrepreneurship**
Peter the Great St. Petersburg Polytechnic University



Most Popular Certificates

The image displays four certificate cards in a row. Each card features a logo, a title, an institution name, and a label indicating the certificate type (Professional Certificate or Specialization). A right-pointing arrow is located to the right of the cards.

- Google IT Support**
Google
PROFESSIONAL CERTIFICATE
- Deep Learning Specialization**
DeepLearning.AI
SPECIALIZATION (5 COURSES)
- Python for Everybody**
University of Michigan
SPECIALIZATION (5 COURSES)
- IBM Data Science**
IBM
PROFESSIONAL CERTIFICATE

新しいスキルを身につけたい人におすすめ

気になった点

ちょっとだけ

- 問題画面でたまにクラッシュする
- 回答選択時や回答送信後に発生して萎える
一応リロードすれば復旧(キャッシュや環境の問題かも?)
- UI/UXがいまいち

Learning about careers in project management

Review: Embarking on a career in project management

computer, while they're at school. Implementing this technology into the school's procedures is the project. It's got a clear outcome and start and end date. So, how is that project managed? Well, this project has several tasks, and each one has to be carefully planned out and tracked, or managed, in order for the project to be completed. For example, to start you can organize training sessions for faculty to get them better acquainted with the technology, policies, and procedures. You can budget for tablets, computers, and other vital equipment to facilitate the virtual checkups. You can maintain strong communication with doctors, the telehealth company, and school staff members and so much more. To successfully launch the product in the schools all of those things need to get done. That is project management. Seems pretty important to an organization's success, right? More and more companies are starting to understand how project management can save them lots of money and time. Poor project management can lead to trillions of wasted dollars every year for organizations around the world. More specifically, poor project management can lead to 48 percent of projects missing delivery dates, 43 percent missing budget targets, and 31 percent failing to meet an organization's goals. As a company that serves so many different purposes in communities, it's no surprise that project management's a huge part of Google. But here, many of our project managers are described as "program managers," because they manage multiple projects for specific products, teams, or programs. There are thousands of people here with the job of keeping projects and programs running smoothly. People like me. I'm a responsible innovation program manager. My team is responsible for ensuring that the technology we produce, the research we pursue, and the publications we put out are all done with Google's artificial intelligence principles in mind. I review the processes for each of these types of technologies, and I give ideas for how to continue innovating responsibly to meet our



動画とテキストを交互に見る形になるのだが、テキストの画面をスクロールした際に動画の位置やサイズが調整できない。ちっちゃく右下固定になる ...

これからもやっていくぞ

- オンラインで自分のペースで学べる
- 英語に接する機会を増やせる
- 体系的かつ最前線に立つ人から学べる
- 新たなスキルの習得する場として有用



Developing Applications with Google Cloud Platform

Google Cloud

SPECIALIZATION

★★★★☆ 4.7 (40,852) | 510K students

📊 Intermediate Save



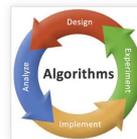
Python 3 Programming

University of Michigan

SPECIALIZATION

★★★★☆ 4.7 (15,822) | 290K students

📊 Beginner Save



Algorithms

Stanford University

SPECIALIZATION

★★★★☆ 4.8 (4,988) | 200K students

📊 Intermediate Save



HTML, CSS, and Javascript for Web Developers

Johns Hopkins University

COURSE

★★★★☆ 4.8 (11,399) | 530K students

📊 Mixed Save