Data Analytics

www.mit.psu.ac.th

http://bit.ly/32Sw8Kv - ลงทะเบียน

http://bit.ly/2CVdvL7 - สไลด์

http://bit.ly/2COhzwU - เอกสาร

โดย

ดร.อนันท์ ชกสุริวงค์

ภาควิชาวิศวกรรมคอมพิวเตอร์ คณะวิศวกรรมศาสตร์



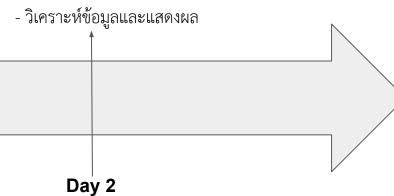


Agenda

Day 1

Machine Learning บน Google Colab

- เรียนรู้การใช้งานข้อมูล



Google Data Analytics

- พื้นฐาน Google Data Studio
- Case Study





What is Google Data Studio?

Google Data Studio is a FREE data visualization tool that allows you to import data from multiple sources and visualize them on a report that is easy to read and share. You can import data from any source using Google Sheets or Data Connectors to create the report you want.





Why Google Data Studio?

Google Data Studio marks the birth of a new era of how organizations consume, share, and use analytics data to drive insights and create even greater business value.

— Joao Correia - Director of Data Insights, Blast Analytics & Marketing







Benefits of Data Studio

- 1. You can create comprehensible and understandable reports
- 2. Pull data from multiple sources a single report can use data from two or more sources
- 3. Create dynamic reports easy to refresh data
- 4. Create fully customizable reports drag & drop
- 5. You can get updates in real time
- 6. You can create unlimited reports
- 7. It's FREE







Documents (anant.c@psu.ac.th)

- https://datastudio.google.com/overview
- http://bit.ly/2COhzwU
- http://bit.ly/2plG6WW

Add-on

- http://bit.ly/2Ks6buP
- https://www.kaggle.com/datasets
- http://bit.ly/33XCZ6Q









What is Google Colaboratory?

Colaboratory is a free Jupyter notebook environment that requires no setup and runs entirely in the cloud. With Colaboratory you can write and execute code, save and share your analyses, and access powerful computing resources, all for free from your browser.







Documents (Basic)

- https://colab.research.google.com/notebooks
 - -basic_features_overview.ipynb
 - -io.ipynb
 - -charts.ipynb
 - -snippets/altair.ipynb









Documents (Advance)

Document

- http://bit.ly/32PRS95 [The Beginner's Guide]
- http://bit.ly/20my1df [Object detection]
- https://github.com/matterport/Mask_RCNN

Let's do it

- http://bit.ly/2NU0N5Z [Intro to pandas]
- http://bit.ly/355MnoX [Object Recognition]
- http://bit.ly/2Xm9Yik [Video Recognition]





ขอขอบคุณ





มา Update ความรู้กันด้วย 10 เทคโนโลยีที่ควรรู้ในปี 2561

Artificial Intelligence



Cloud Computing



Angular & React





Blockchain



Internet of Things (IoT)



Intelligent Apps

Big Data

HBASE

Spark







AR & VR -



RPA – Robotic Process Automation













RPA – Robotic Process Automation











Automate Repetitive Tasks



Cost Savings





blue prism







Deloitte.











Intelligent Apps



What are Intelligent Apps?

One can see intelligent apps as an appliance of artificial intelligence and advanced machine learning in the form of an application.



Applications

- · Chat-bots
- · Virtual Assistants





Companies



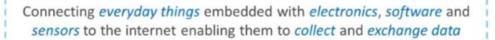






Internet of Things (IoT)







TO THINGS















7. DevOps





- Software development strategy aimed to eliminate the Silo between development & operations.
- Involves Continuous Development, Continuous Testing, Continuous Integration, Continuous Deployment & Continuous Monitoring.

Companies using it













Features

- Shorter software development lifecycles →
- Improved quality of software produced
- · Improved work environment

- → FASTER
- → BETTER
- → TEAM COLLABORATION

Popular Tools







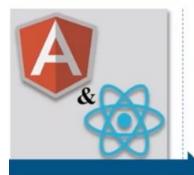








Angular & React



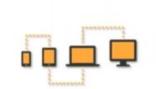


Popular JavaScript based Framework for creating Modern Web Application











Open Source

Speed & Performance

Modular

Native App Development







Cloud Computing









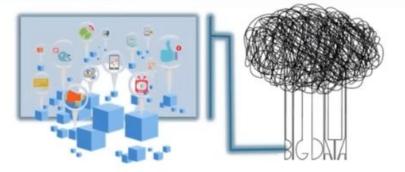


Big Data





Big data is the term for collection of data sets so large and complex that it becomes difficult to process using on-hand database system tools or traditional data processing applications

















AR & VR – Virtual Reality



Virtual reality is an artificial environment that is created with software and presented to the user in such a way that the user suspends belief and accepts it as a real environment

The various types of virtual reality differ in their levels of immersion and applicational use cases







Jogging with a VR TV





Flight Simulation

Fully Immersive





Immersive VR Gaming







AR & VR – Augmented Reality



AR is a technology that superimposes a computer-generated image on a user's view of the real world, thus providing a composite view





Pokemon Go



AR Integrated Maps







Blockchain

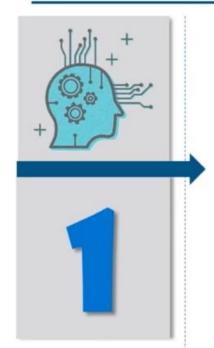


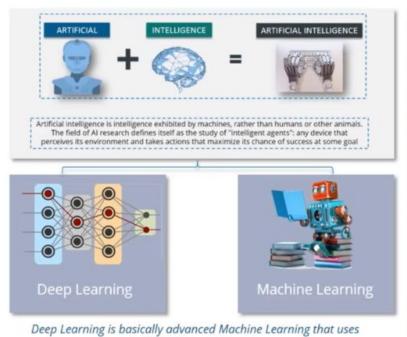






Artificial Intelligence





Artificial Neural Networks







