





MICROCREDENTIAL: ASSOCIATE DATA SCIENTIST

01 November – 10 Desember 2021

Sesi Industri/Pemerintah

AWS Machine Learning for Data Scientist

Muchamad Agus Romansyah Solutions Architect - Amazong Web Services Indonesia













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- S1: S.Kom. Teknik Informatika, ITS, Indonesia (1999)
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- •S2: M.Sc.Eng. Computer Science and Information Engineering, 臺灣科技大學 (NTUST), Taiwan (2005)

 M.Phil. Computer Science, University of Birmingham, UK (2017)
- •S3: Electrical Engineering, 臺灣科技大學 (NTUST), Taiwan (2010 cuti)

 Аспирант Institute of Automation and Information Technologies, Тамбовский Государственный Технический Университет (ТГТУ), Russia (2017 cuti)

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- •Dosen pada Departemen Teknik Informatika, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia (1998/2002 sekarang)
- •ICT consultant & practitioner (1996 sekarang)
- •Tutor dan demonstrator pada School of Computer Science, University of Birmingham, UK (2011 2016)
- •PhD Researcher pada Department of Applied Informatics, Univerzita Komenského v Bratislave, Slovakia (2009 2010)
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Industrial/Government Session: Discussion





AWS: What is it?

 Amazon Web Services, Inc. (AWS) is a subsidiary of Amazon providing ondemand cloud computing platforms and APIs to individuals, companies, and governments, on a metered payas-you-go basis.





AWS: Revenue

• US\$46 billion (2020) - (wikipedia, 2021)





AWS Indonesia: Where are here!

• Clients:



























AWS Indonesia: Where are here! (continued)

Clients:

























AWS Indonesia: Where are here! (continued)

Clients:

















AWS Indonesia: Consultant partners



















AWS Indonesia: Technology partners











AWS Indonesia: Training partners







Data to wisdom chaining: Data scientist's role

- Data → Information → Knowledge → Insight → Wisdom ... -> Conspiracy Theory (... It's joking! (3))
- (Associate) Data Scientist's role:
 - It combines computer science, statistics and mathematics
 - They **analyse**, **process** and **model** data







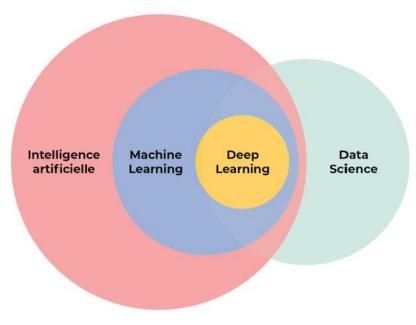
Data Science, Machine Learning & AI: Relationship

What is Machine Learning?

- Using technology to discover trends and patterns and compute mathematical predictive models based on factual past data
- Past data, statistics and probability theory are key tools used to build machine learning models and make predictions.

Where traditional business analytics aims at answering questions about past events, machine learning aims at answering questions about the possibilities of **future** events

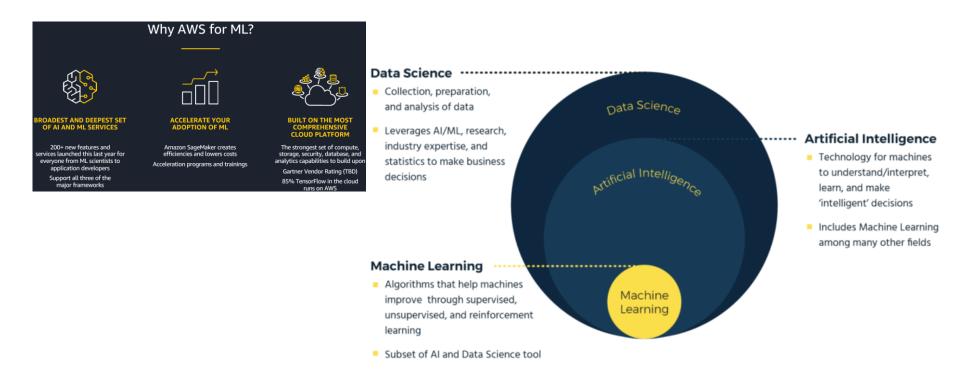








Al vs. Data Science vs. Machine Learning









Data Science: What business can benefit from





Advantages of Data Science for Businesses Helps Make Better Decisions Helps Improve Performance Helps the Staff follow the Best Practices Helps Boost Progress through Data Analysis Identifying Opportunities Helps Fight the Competitors Helps Identify the Target Audiences





Terima kasih



