

Data Science and AI

Job Role and Opportunity

Wu Hub, 9 Feb 2020

(‘•w•’)?

Business Analyst?

Data Analyst?

Machine Learning?

Data Engineer?

Data Science?

Data Scientist?

∇^p

Artificial Intelligence?

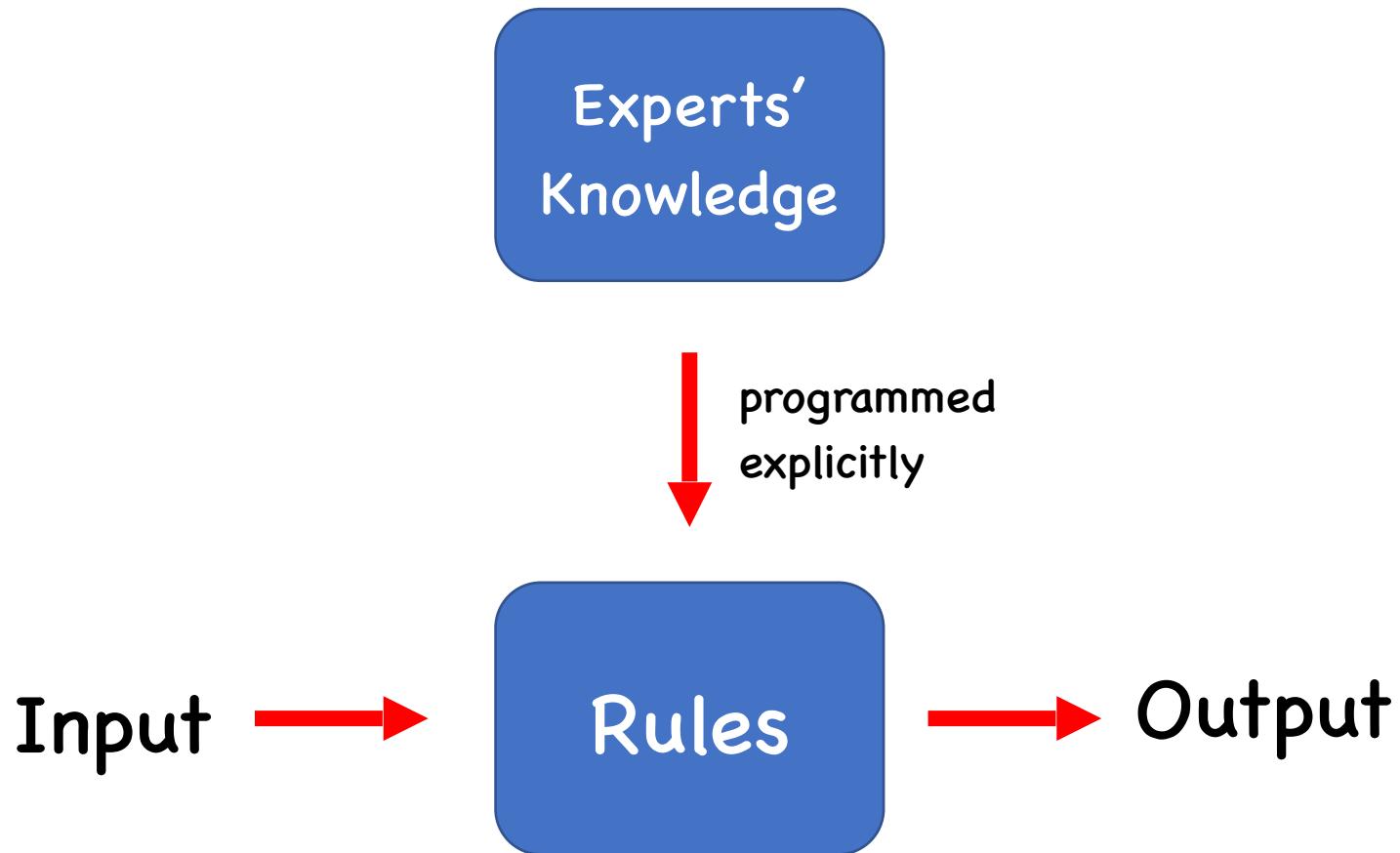
Data Science (Dhar, 2013)

- Interdisciplinary field
- Extract insight from data

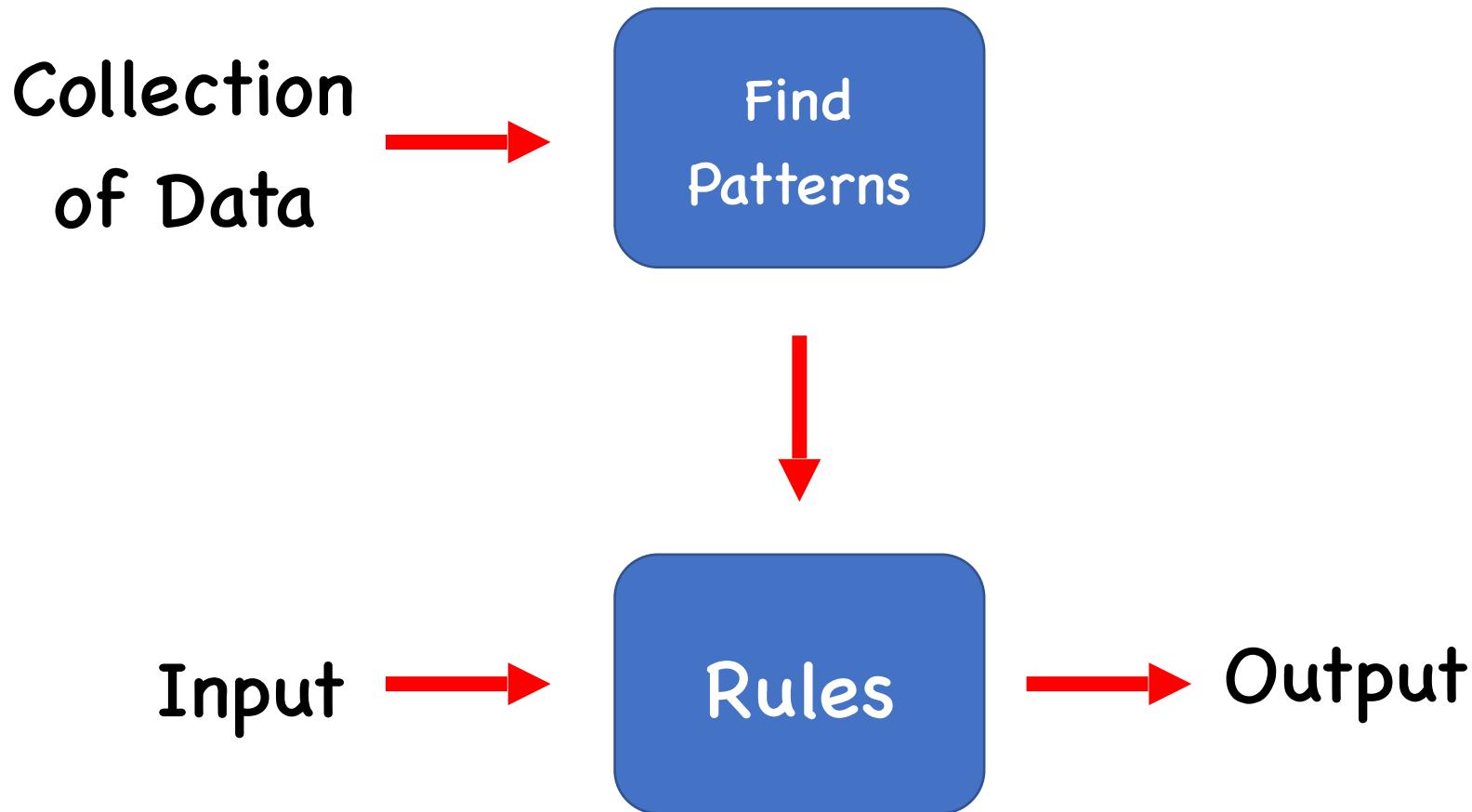
Machine Learning (Arthur, 1959)

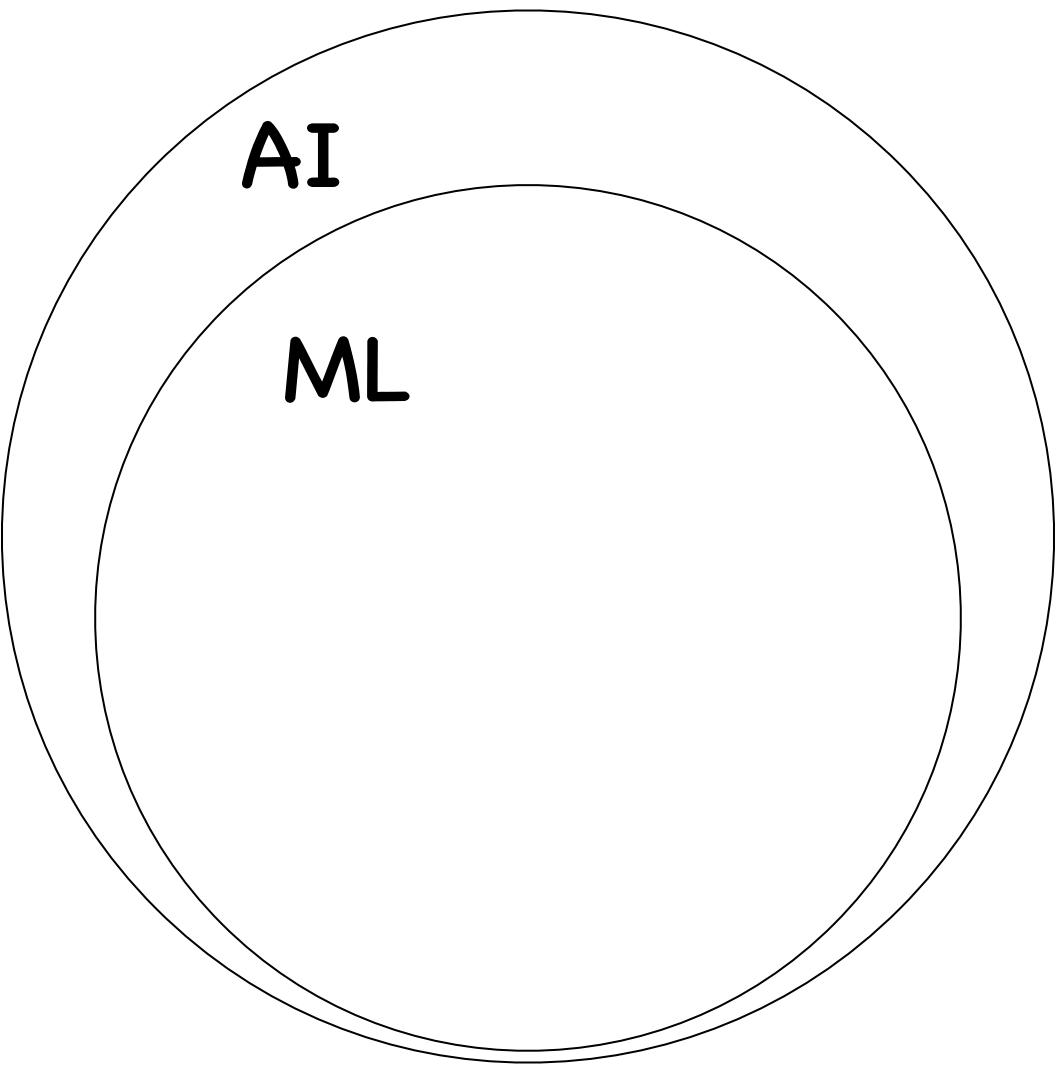
- A field of study
- Gives machine the ability to learn
- without explicitly programmed

Artificial Intelligence



Machine Learning

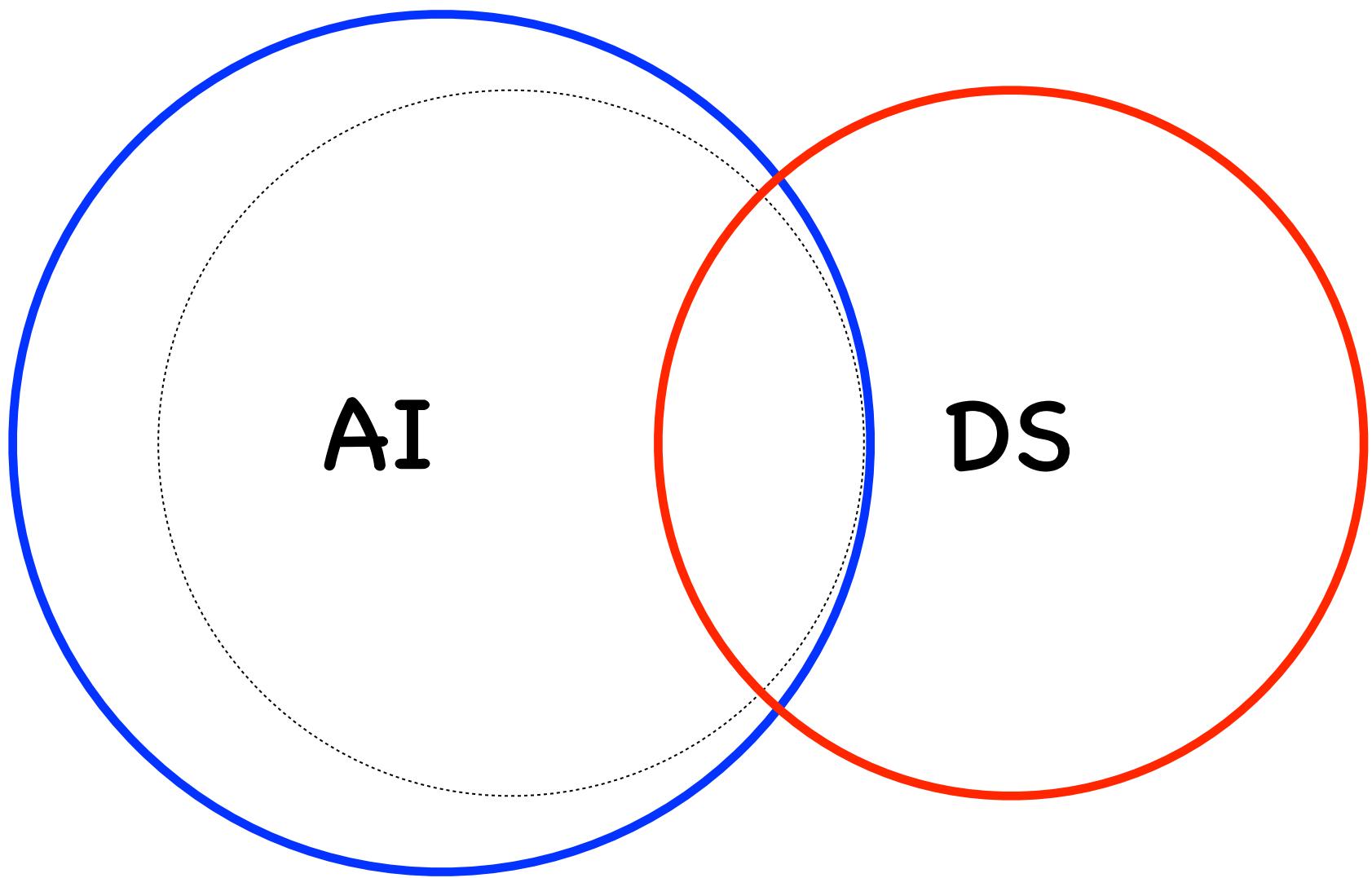




AI

ML

Artificial Intelligence & Data Science



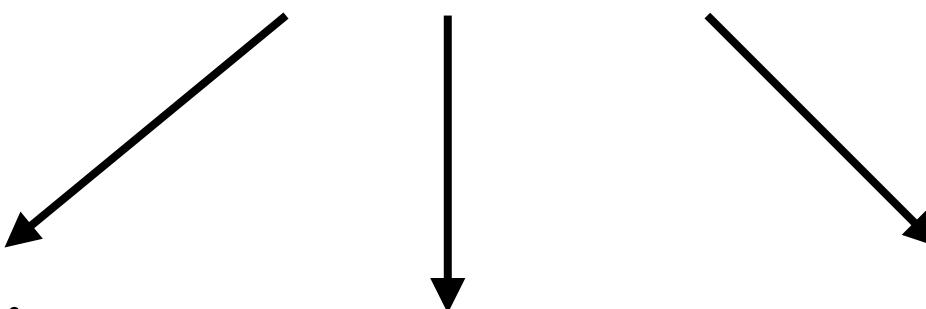
Let's talk more about some
roles in Data Science

Data Science

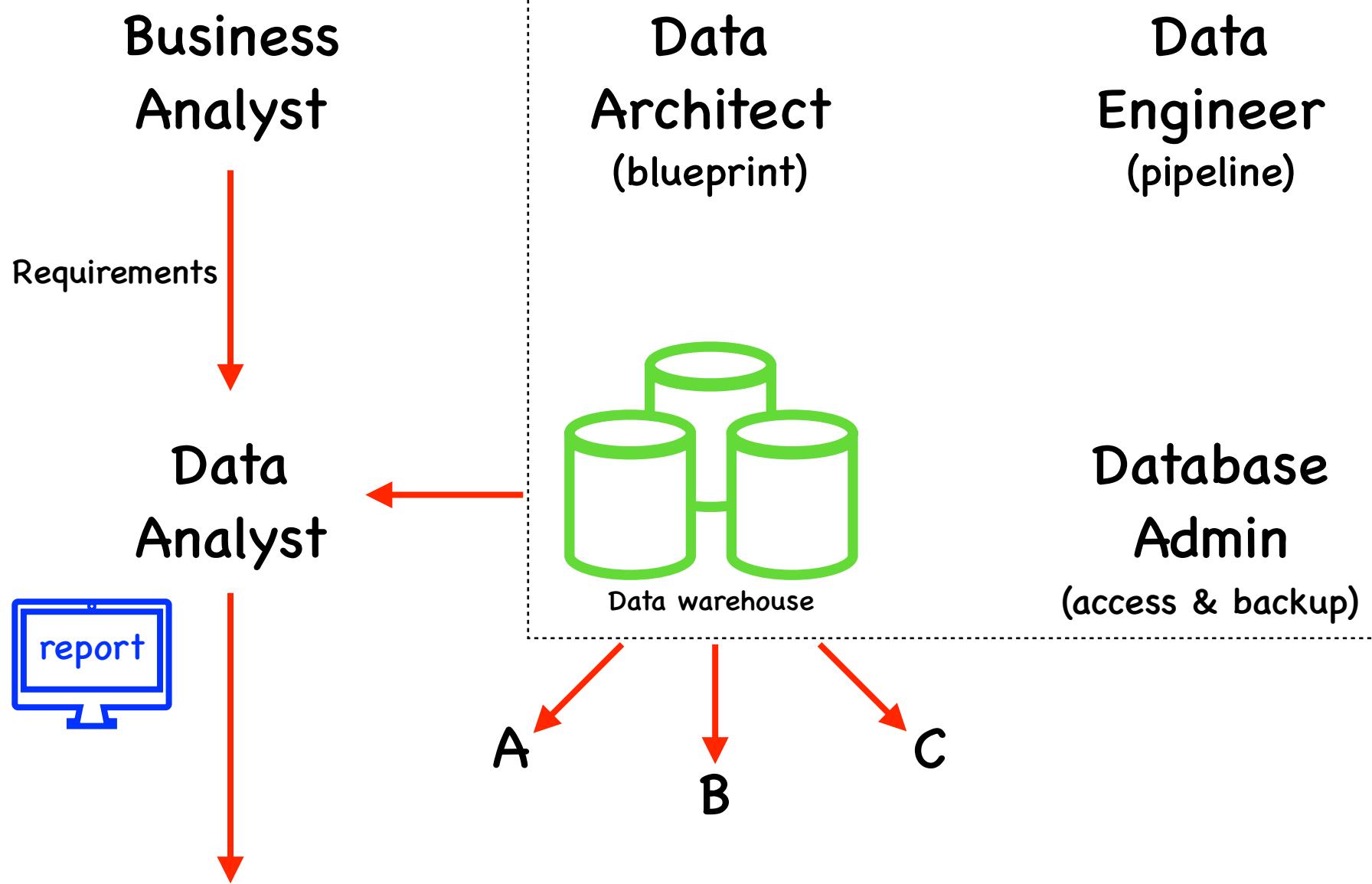
Analitik

Modeling

Testing

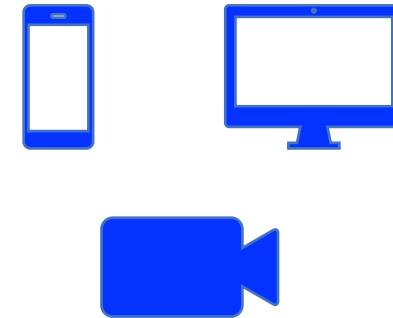


Analitik



Modeling

Data Scientist → ML Engineer
AI Engineer



Back End Developer

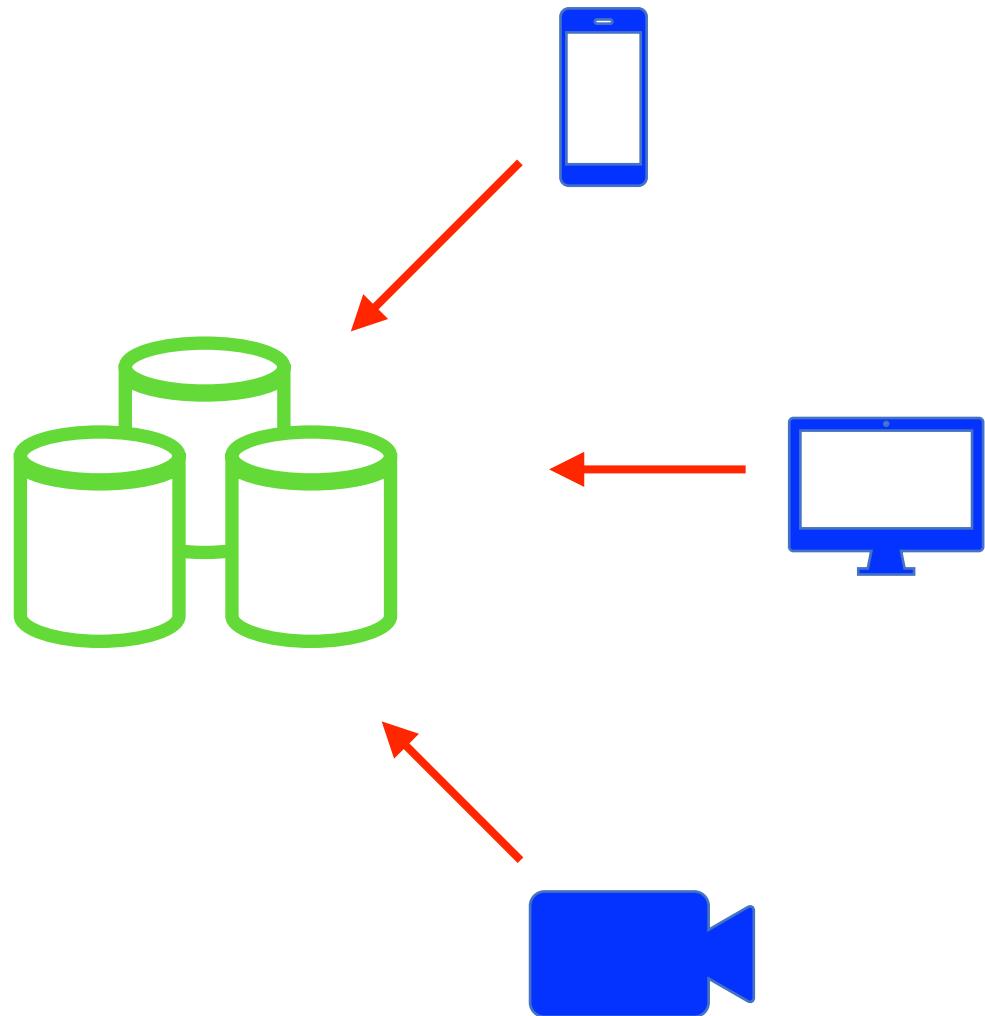
Front End Developer

DevOps Engineer

(Mobile Developer)
(Web Developer)
(Cloud DevOps Engineer)

Testing

Data
Scientist



Other

ML Researcher

AI Scientist

IoT Engineer

Product Manager

Cyber Security

Scrum Master



▽^p JCOp Untuk Indonesia

Opportunity?



“It’s no surprise, but tech skills dominate”
- World Economic Forum



Top 5 Soft Skills

- ① Creativity
- ② Persuasion
- ③ Collaboration
- ④ Adaptability
- ⑤ Emotional intelligence



Top 10 Hard Skills

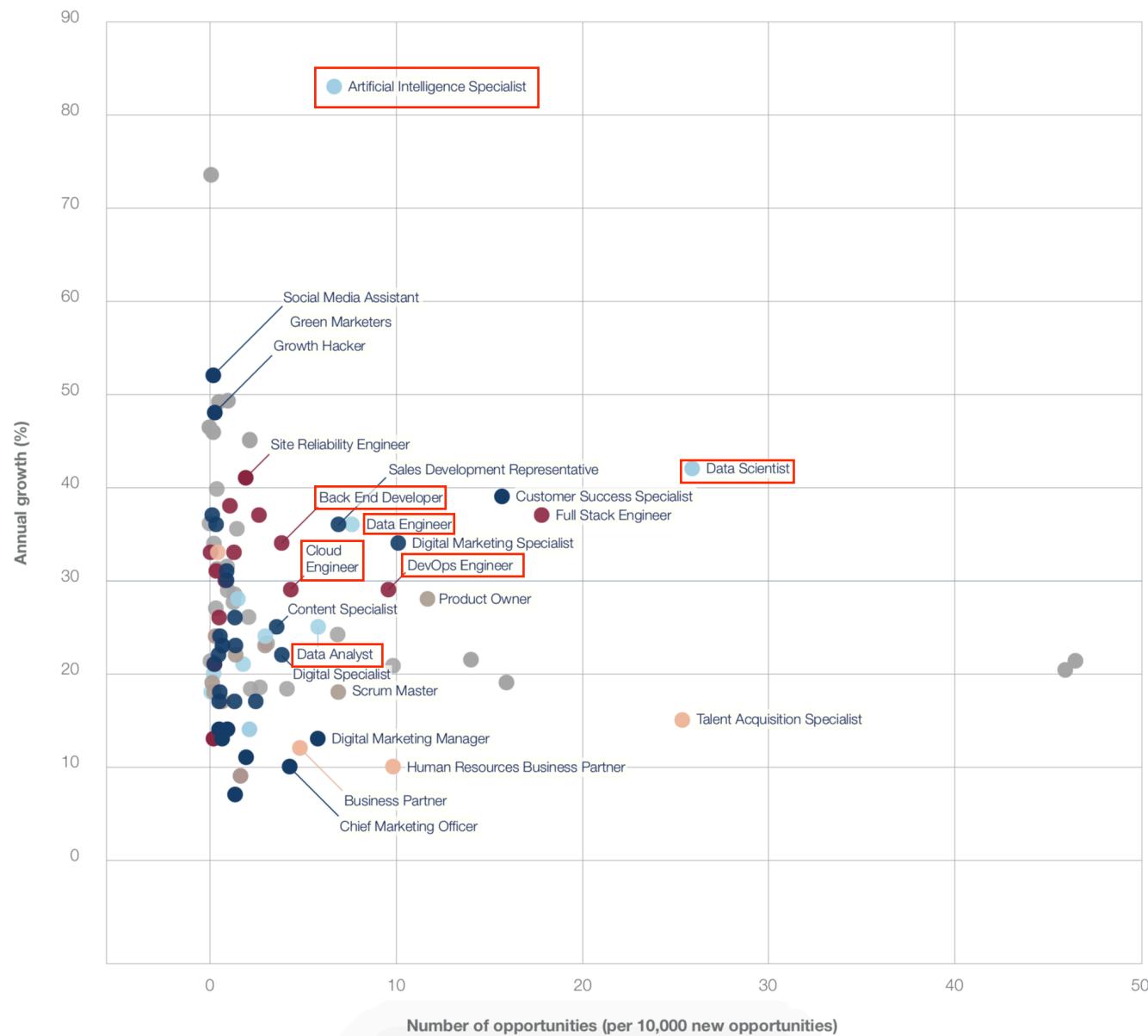
- ① Blockchain
- ② Cloud computing
- ③ Analytical reasoning
- ④ Artificial intelligence
- ⑤ UX design
- ⑥ Business analysis
- ⑦ Affiliate marketing
- ⑧ Sales
- ⑨ Scientific computing
- ⑩ Video production

LinkedIn Learning

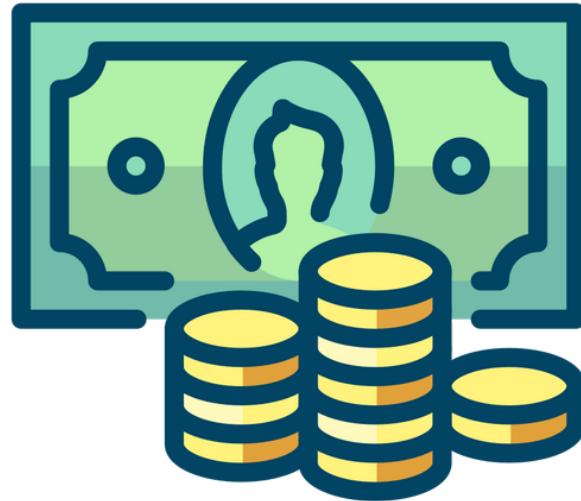
The Skills Companies Need Most in 2020

5 / 10

Opportunity 2014-2019



Salary?

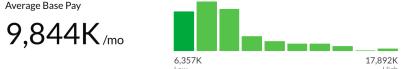


Business Analyst Salaries in Indonesia

46 Salaries Updated Jan 5, 2020

Very High Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 9,000,000 How much does a Business Analyst make?
Range 2 - 41,689,768 The national average salary for a Business Analyst is Rp 9,844,247 in Indonesia. Filter by location to see... [More](#)

Product Manager Salaries in Indonesia

44 Salaries Updated Feb 2, 2020

Very High Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 36,000,000 How much does a Product Manager make?
Range 7 - 89,602,352 The national average salary for a Product Manager is Rp 17,000,000 in Indonesia. Filter by location to see Product Manager salaries in your area. Salary estimates are based on 44 salaries submitted anonymously to Glassdoor by Product Manager employees.

Financial Analyst Salaries in Indonesia

11 Salaries Updated Dec 20, 2019

Very High Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 16,000,000 How much does a Financial Analyst make?
Range 2 - 100,000,000 The national average salary for a Financial Analyst is Rp 9,226,392 in Indonesia. Filter by location to see Financial Analyst salaries in your area. Salary estimates are based on 11 salaries submitted anonymously to Glassdoor by Financial Analyst employees.

Back End Developer Salaries in Indonesia

2 Salaries Updated Oct 30, 2019

Low Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 3,075,568 How much does a Back End Developer make?
Range 3,075,568 - 3,075,568 The national average salary for a Back End Developer is Rp 5,537,784 in Indonesia. Filter by location to see... [More](#)

Data Analyst Salaries in Indonesia

28 Salaries Updated Oct 30, 2019

Very High Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 9,000,000 How much does a Data Analyst make?
Range 3,025,000 - 15,000,000 The national average salary for a Data Analyst is Rp 8,350,000 in Indonesia. Filter by location to see Data... [More](#)

Database Administrator Salaries in Indonesia

1 Salary Updated Jan 16, 2019

Low Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 15,390,382 How much does a Database Administrator make?
Range 15,390,382 - 15,390,382 The national average salary for a Database Administrator is Rp 15,390,382 in Indonesia. Filter by location... [More](#)

Front End Developer Salaries in Indonesia

14 Salaries Updated Aug 9, 2019

Very High Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 20,000,000 How much does a Front End Developer make?
Range 2 - 14,284,999,680 The national average salary for a Front End Developer is Rp 12,500,000 in Indonesia. Filter by location to... [More](#)

Data Scientist Salaries in Indonesia

17 Salaries Updated Jan 5, 2020

Very High Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 13,035,652 How much does a Data Scientist make?
Range 1 - 25,000,000 The national average salary for a Data Scientist is Rp 12,000,000 in Indonesia. Filter by location to... [More](#)

Devops Engineer Salaries in Indonesia

3 Salaries Updated Oct 12, 2019

Low Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 26,000,000 How much does a Devops Engineer make?
Range 7 - 31,000,000 The national average salary for a Devops Engineer is Rp 9,500,000 in Indonesia. Filter by location to see Devops Engineer salaries in your area. Salary estimates are based on 3 salaries submitted anonymously to Glassdoor by Devops Engineer employees.

Machine Learning Engineer Salaries in Indonesia

1 Salary Updated Mar 14, 2019

Low Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average No Reports How much does a Machine Learning Engineer make?
Range No Reports The national average salary for a Machine Learning Engineer is Rp 16,000,000 in Indonesia. Filter by location to... [More](#)

Software Developer Salaries in Indonesia

34 Salaries Updated Jan 10, 2020

Very High Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 9,364,857 How much does a Software Developer make?
Range 1 - 70,503,240 The national average salary for a Software Developer is Rp 10,481,484 in Indonesia. Filter by location to see Software Developer salaries in your area. Salary estimates are based on 34 salaries submitted anonymously to Glassdoor by Software Developer employees.

Mobile Developer Salaries in Indonesia

5 Salaries Updated Dec 12, 2019

High Confidence

Industries Company Sizes Years of Experience



Additional Cash Compensation ⓘ
Average 6,500,000 How much does a Mobile Developer make?
Range 6,500,000 - 6,500,000 The national average salary for a Mobile Developer is Rp 8,500,000 in Indonesia. Filter by location to... [More](#)

source: Glassdoor

Role / Position	Low	Avg	High	n_data	confidence
Business Analyst	6.4	9.8	18	64	very high
Data Analyst	5.4	8.4	13.5	28	very high
Data Scientist	7.3	12	27.3	17	very high
Database Admin		15.4		1	low
ML Engineer		16		1	low
DevOps Engineer	9	9.5	13	3	low
Back End Developer	3	5.5	8	2	low
Front End Developer	5.5	12.5	22	14	very high
Software Developer	6.6	10.5	13.4	34	very high
Mobile Developer	6.5	8.5	17	5	high
Other					
Product Manager	9.1	17	25.5	44	very high
Financial Analyst	2.7	9.2	13.8	11	very high
No Data					
Data Engineer	Big Data Engineer	Data Architect	Cloud Engineer		

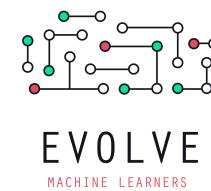
source: Glassdoor (Feb 2020). Compiled by JCOp Untuk Indonesia, with rounding

That's it for now
Thank you for your attention

Want to learn Machine Learning?



JCOp Untuk Indonesia
Self-taught - Youtube



Evolve Machine Learners
Guided - Bootcamp

Contact me:

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