

Big Data Analytics

Piotr Menclewicz

Why Big Data?

200 CVs for DA role

3k CVs for ~10s of job offers

- "In any other case I'd like to be younger...
 - ... but not in case of searching IT job"

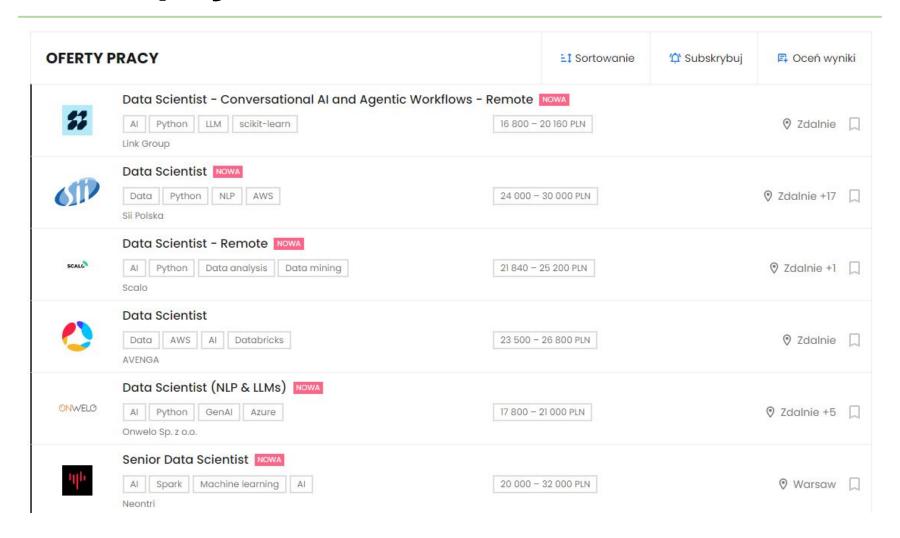
Why Big Data?







It still pays off to enter the field!



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Main goal of this course

Understand which skills will get you there, and learn (some) of them!

About me



Piotr Menclewicz,
Staff Data Analyst

@GetInData

10+ years in data analytics (ex-Allegro, ex-McKinsey)

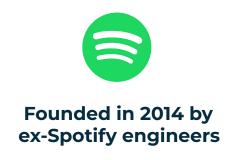
not-academian, but teaching others is my passion

🗭 family life can be an adventure

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About GetInData

We work with organizations to grow their business by using data, analytics & technology





Focus on Big Data & Cloud (from day 1)



130+ engineers and data scientists



Community Builders (conference, meetups, blog posts, open-source)

Your Experience

- 1. Have you already used **Hadoop** or other **Big Data tools?**
- 2. Have you worked with any data related cloud solutions?
 - a. Google BigQuery
 - b. Amazon Redshift, Athena
 - c. Snowflake
 - d. Databricks
- 3. What is your **experience** with popular **programming languages?**
 - a. Python, SQL, R, Scala
- 4. What is your **experience** with **ML?**

Goals

- Introduction to Big Data
 - Trends in data
 - Fundamental concepts and most popular technologies
- Hands-on experience with most popular technologies
 - Inspired by a real-world companies and their use-cases
- Knowledge required to start your journey with Big Data
- How to transfer your current knowledge about data analysis and machine learning to Big Data

What we won't do:

Learn new data analysis or ML concepts

Assessment

- Active attendance (hands-on quests: unique, high-quality & on-time responses)
- **Project**

or

Test

Why such approach? 🤔

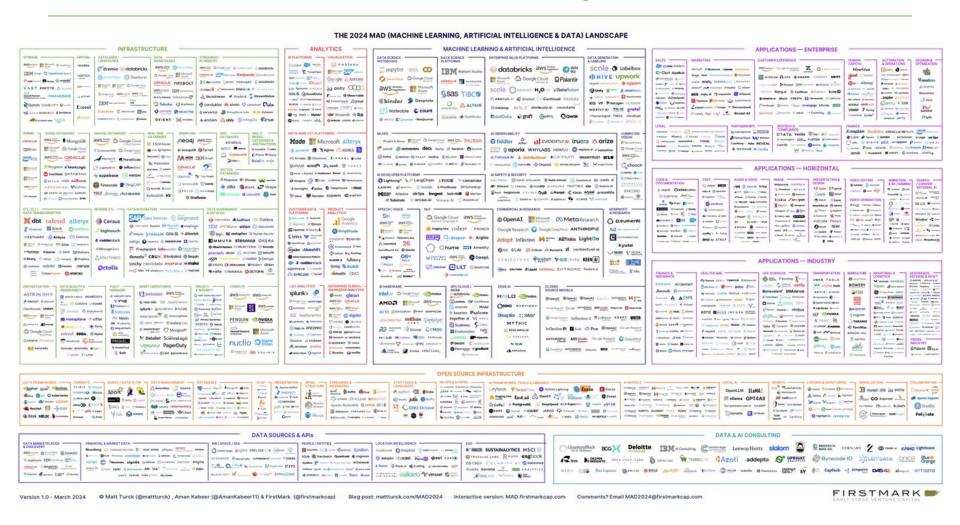


Logistics

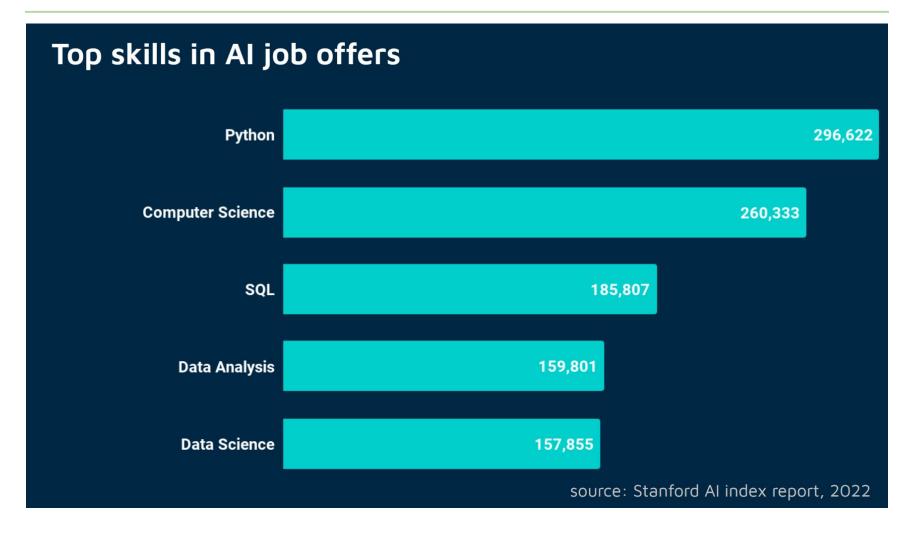
- usually ~45 intro & discussion
- 10 minute break
- ~35 minute hands-on excercise

Today you'll learn...

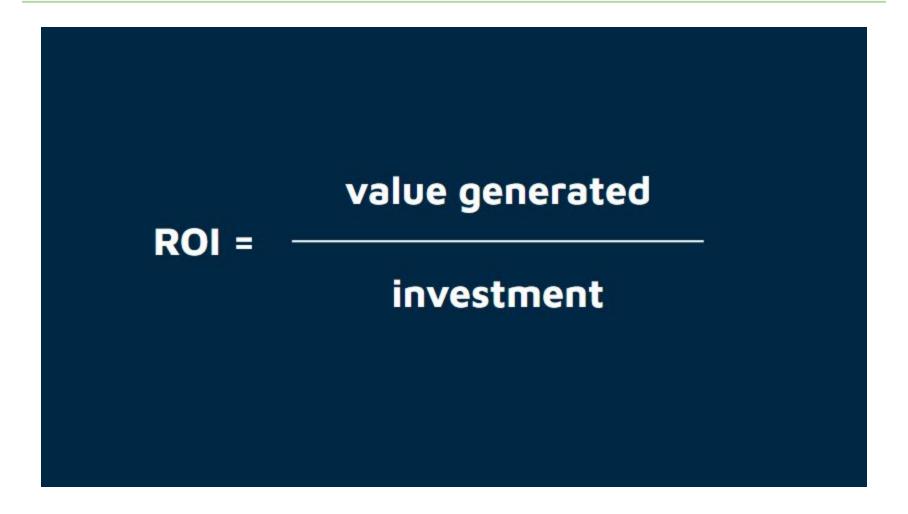
- Core skills for Data Analysis
- Key trends



How to choose the right ones?

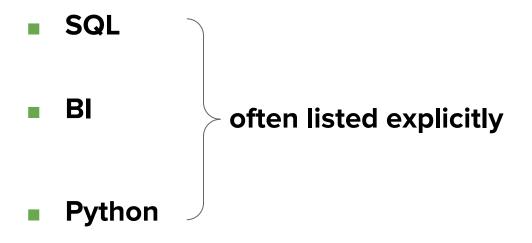


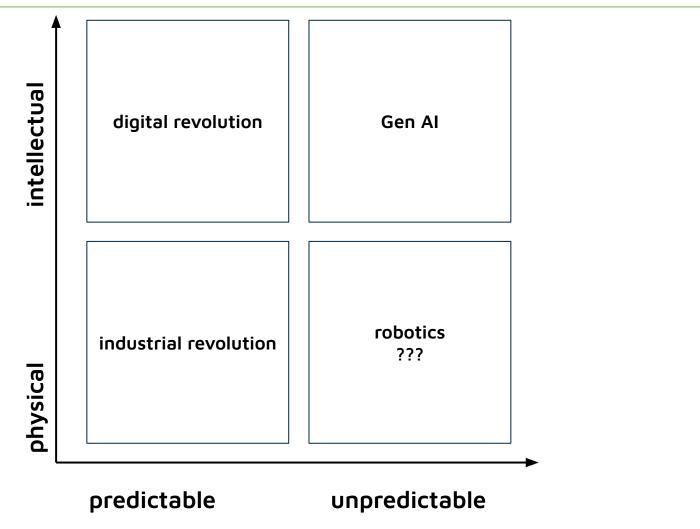
How to choose the right ones?



Data Analyst vs Big Data Analyst?







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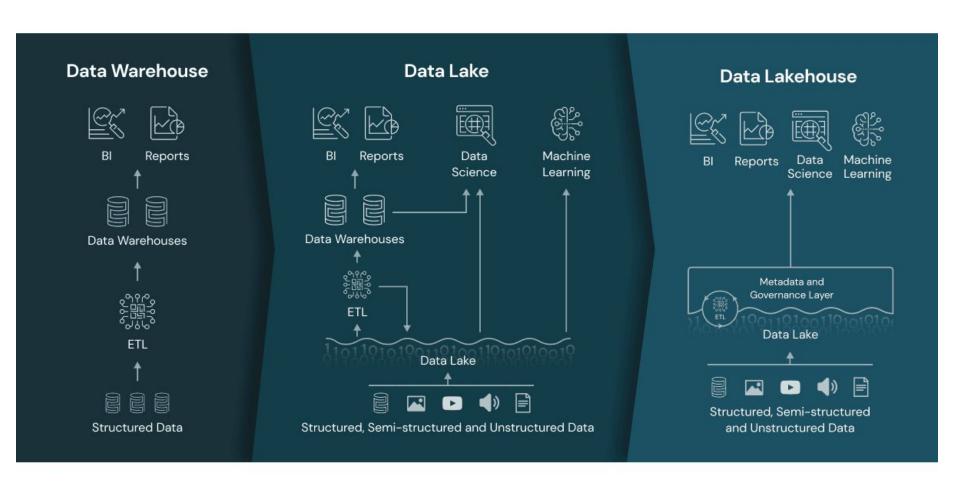
SQL
 BI often listed explicitly
 Python

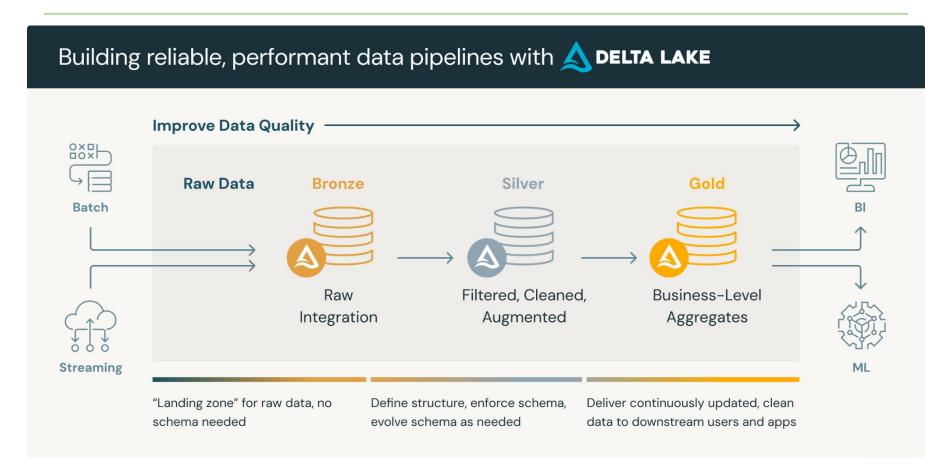
Business Understanding

Math/Statistics

make you perform great

HISTORY LIKES TO REPEAT ITSELF





source: Databricks

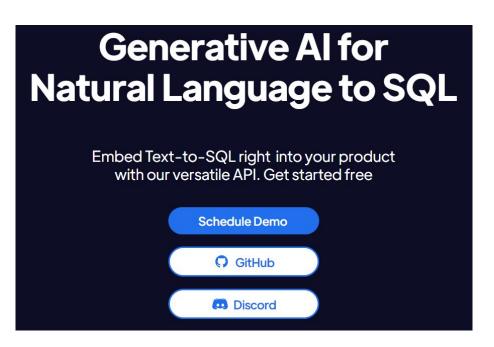
SELF-SERVICE



Data Analyst??

Analytics Engineer

GEN AI



March 12th, 2024 | Written by Scott Wu

Introducing Devin, the first Al software engineer

And setting a new state of the art on the SWE-bench coding benchmark

Meet Devin, the world's first fully autonomous AI software engineer.

Devin is a tireless, skilled teammate, equally ready to build alongside you or independently complete tasks for you to review.

With Devin, engineers can focus on more interesting problems and engineering teams can strive for more ambitious goals.

What do you think about using Gen AI tools in this course? What are pros and cons?

(companies face the same issue)

Assignment

https://forms.gle/36LsS7ttiLvB7mGF9