

Starting a Career in Data Science

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Dilo Banda Aceh - 2 Desember 2020



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Today's Outline

DATA
SCIENCE
INDONESIA

1

Understanding
Data Science
Career Path

2

Essential Data
Science Skills

3

How to Get
Started

**“Data Science is
A World of Endless Opportunities”**

DATA SCIENCE JOB OPPORTUNITIES CONTINUE TO SURGE IN 2020

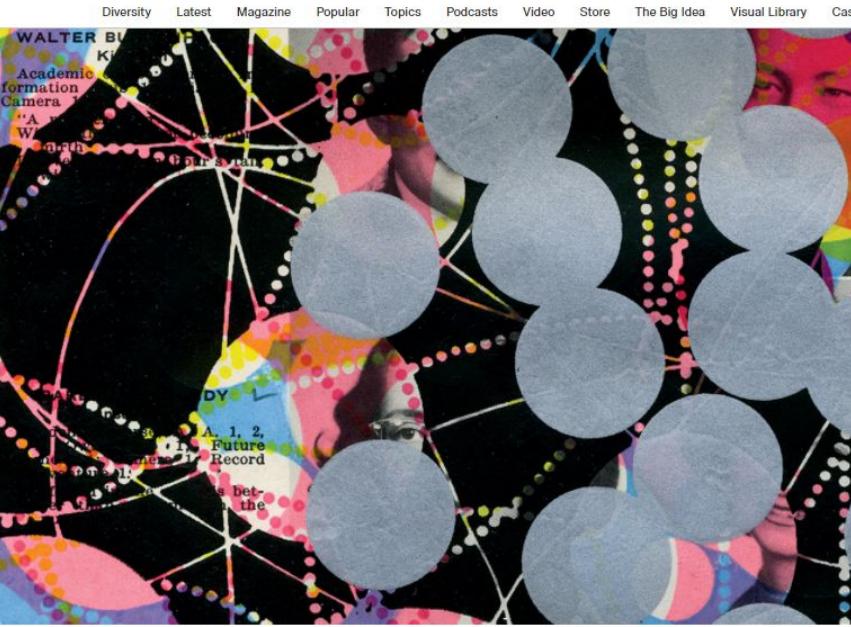
DATA SCIENCE JOBS LATEST NEWS

by Smriti Srivastava / January 27, 2020



Data science has been a game-changer across every industry. With high-level digitization of processes, the generation of data is at peak and thus data science technology and tools are deployed to drive more productivity across organizations. This tech-field as a whole has a bunch of perks to provide including technologies for Big Data, Data Mining, Machine Learning, Data Analysis, and Data Analytics.

As problem-solving lies at the core of service providers and businesses, data science has the ability to analyze heaps of data to resolve problems more quickly and efficiently than was previously possible with a purely engineered solution. Moreover, driven by the emergence of proficient ML algorithms and a shift from descriptive to predictive analytics, predictive maintenance has been steadily gaining ground in the industry and shows no sign of slowing down.



DATA

Data Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport and D.J. Patil

From the October 2012 Issue

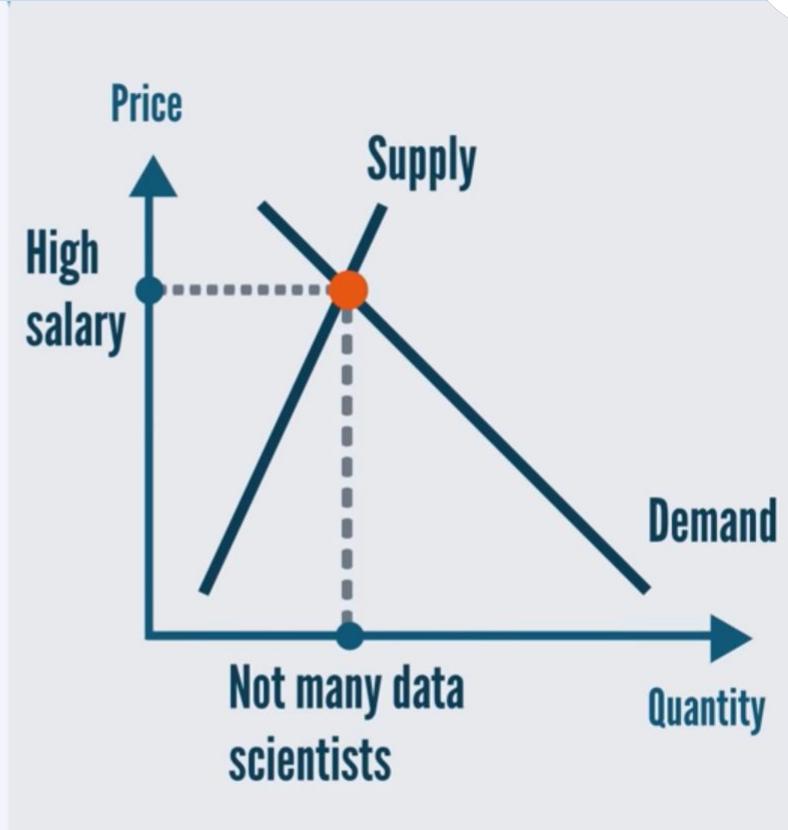
[Summary](#) [Save](#) [Share](#) [Print](#) \$8.95 Buy Copies

When Jonathan Goldman arrived for work in June 2006 at LinkedIn, the business networking site, the place still felt like a start-up. The company had just under 8 million accounts, and the number was growing quickly as existing members invited their friends and colleagues to join. But users weren't seeking out connections with the people who were already on the site at the rate executives had expected. Something was apparently missing in the social experience. As one LinkedIn manager

Fact...

The demand for data scientists is very high, while the supply is too low.

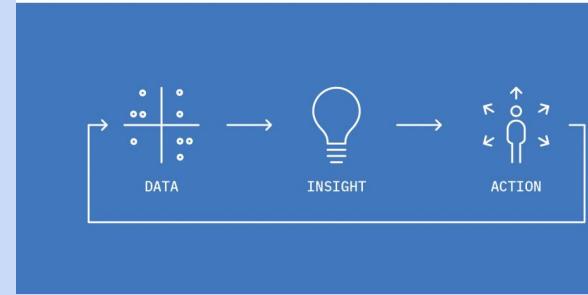
This tendency will continue to be strong for the years to come.



Really ? Where does the Demand Come from?



Demands come from :



1. Data-Driven Decision Making is Popular
2. “Data Science Fueled” Enterprises
3. Technological Sophistication is Growing Rapidly
4. Ignorance A Job in the Data Science Field can become from transition from Other Field

Every Industry Needs Data Science

Customer Insight



Smarter Healthcare



Science & Research



m/c performance



Business Insight



Traffic Control



Retail Solutions



Finance



Personal Insight



Sports Performance

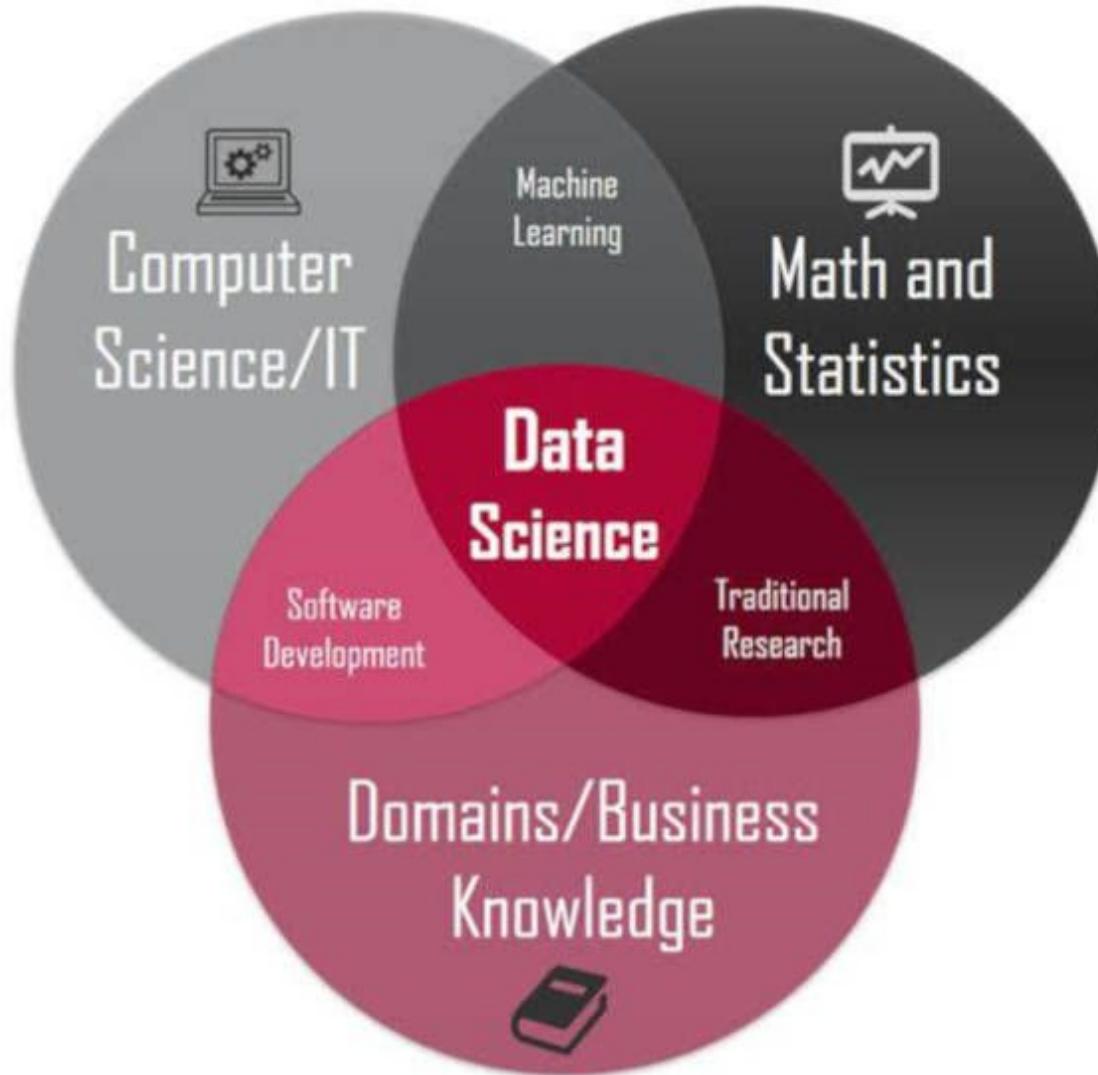


Homeland Security



Risk Management





Data Science

“Art of uncovering data, finding pattern, and gain insight for measurable action.”

Data Science ≠ Machine Learning

Data Science ≠ Statistics

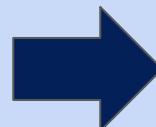
**DATA SCIENCE IS
MULTIDICIPLINARY
FIELDS**

1

UNDERSTAND DATA SCIENCE CAREER PATH



DATA
SCIENCE
INDONESIA

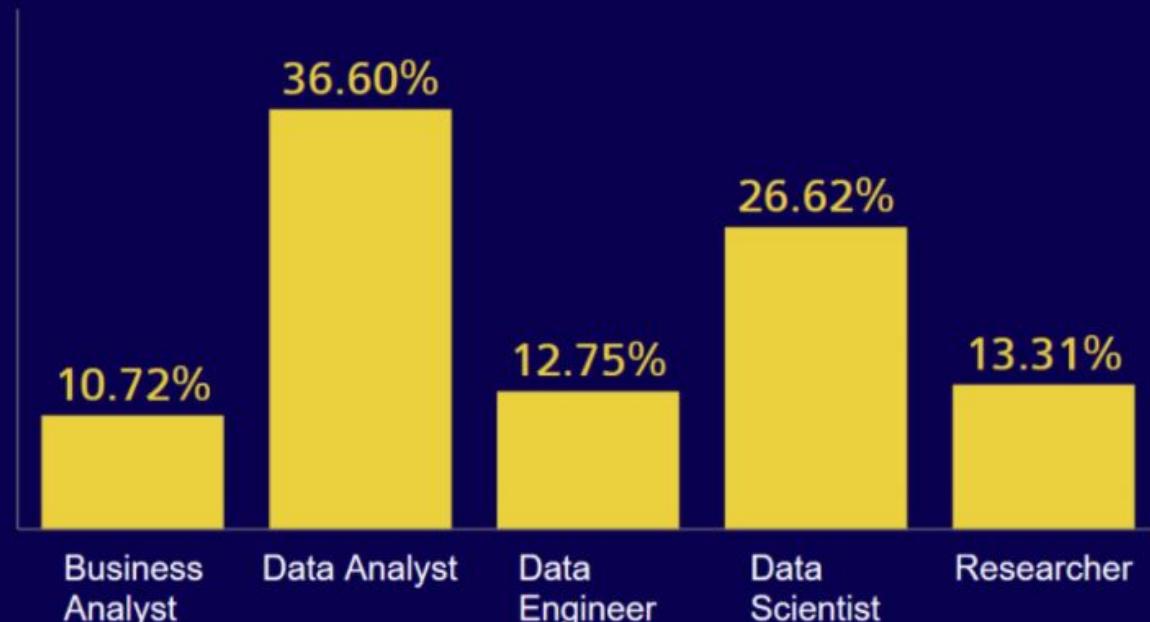


Data Talent Gap

Perkiraan Komposisi Kelompok Keprofesian Data Talent di Indonesia

DATA
SCIENCE
INDONESIA

Komposisi Kelompok Data Talent



- **BUSINESS ANALYST**

Profesi yang berkait dengan bidang konsultasi di mana pekerja mengolah data secara terbatas untuk merancang suatu solusi bisnis atau suatu strategi. Kelompok profesi sangat berdekatan dengan layanan konsultansi (advisory services).

- **DATA ANALYST**

Kelompok ini berisi profesi yang sebagian besar dari pekerjaannya adalah melakukan analisis data untuk membuat laporan atau insight yang disampaikan kepada pembuat keputusan.

- **DATA ENGINEER**

Kelompok ini berisi profesi yang fokus pada persiapan infrastruktur data, perapihan data, dan pengembangan basis data untuk memudahkan organisasi dalam mengelola data mereka.

- **DATA SCIENTIST**

Kelompok ini berisi profesi yang memiliki spesialisasi dalam melakukan pemodelan menggunakan data yang kompleks dan besar untuk melakukan prediksi atau membuat proses yang otomatis.

- **RESEARCHER**

Kelompok ini berisi profesi yang secara tradisional dimaknai sebagai peneliti di mana profesi ini banyak menggunakan data, baik kuantitatif dan kualitatif untuk menghasilkan suatu riset tertentu.

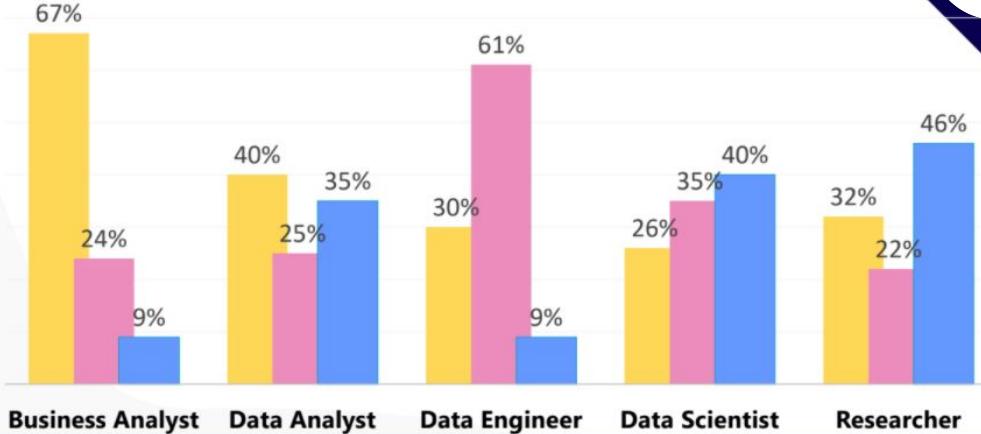
2

ESSENTIAL DATA SCIENCE SKILLS

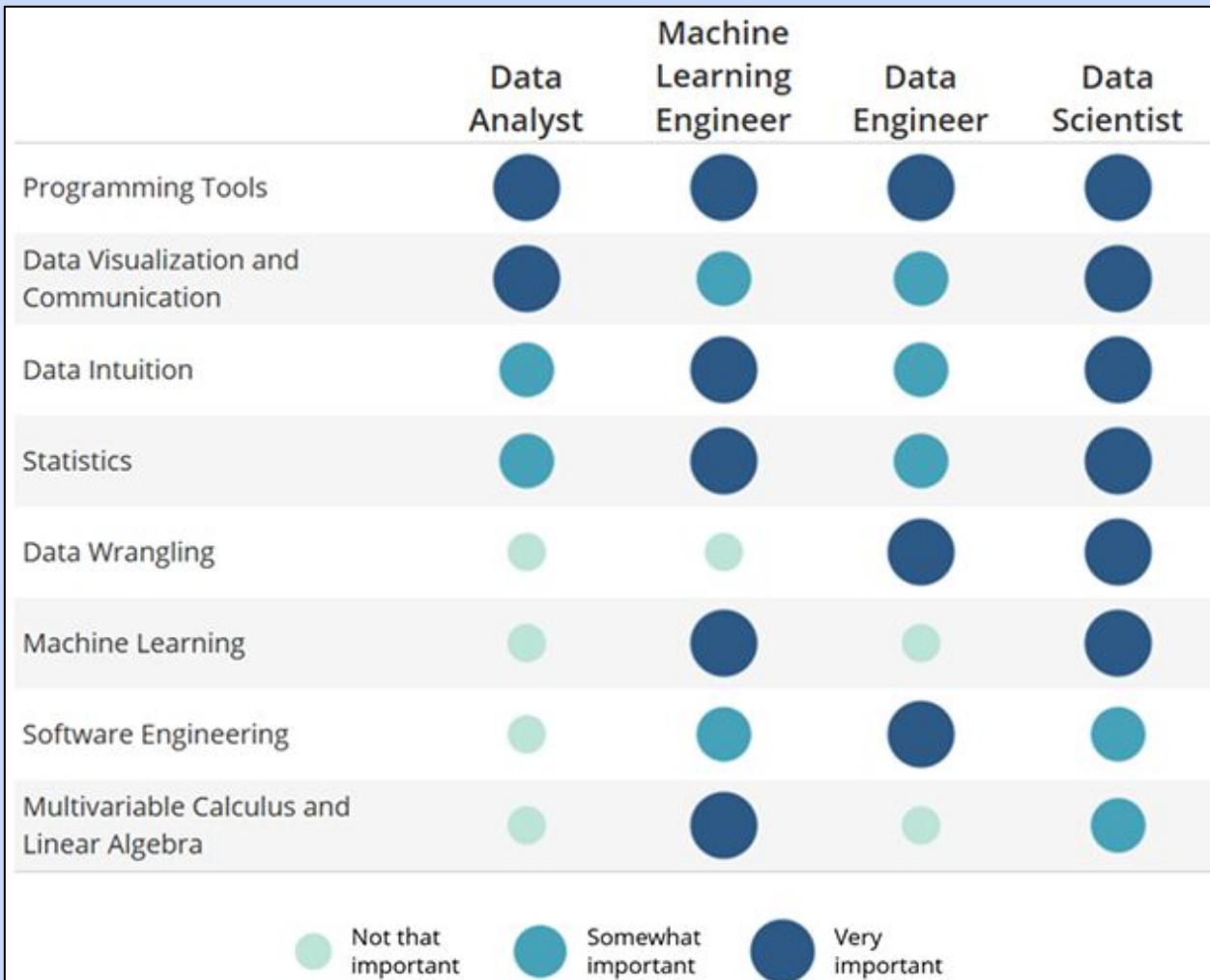
DATA
SCIENCE
INDONESIA

Skillset by Job Position

Yellow: Business & Communication | Pink: Programming Language | Blue: Statistics & ML



Keragaman Fokus Keterampilan Memang Ada
di Setiap Kelompok Profesi

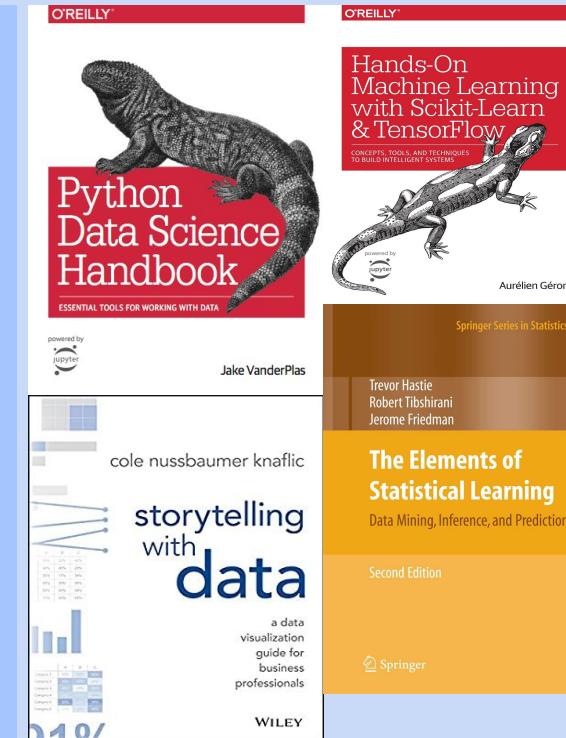


3

HOW TO GET STARTED



Read Research Paper, Books, any Literature To Take Your Data Science Skills to the Next Level



Choose the Right Role



Find the Fit Mentor



Keep in Touch Familiar With Data Science Tools





Repository containing portfolio of data science projects completed by me for academic, self learning, and hobby purposes. Presented in the form of iPython Notebooks, and R markdown files (published at RPubs).

For a more visually pleasant experience for browsing the portfolio, check out sajalsharma.com

Introduction

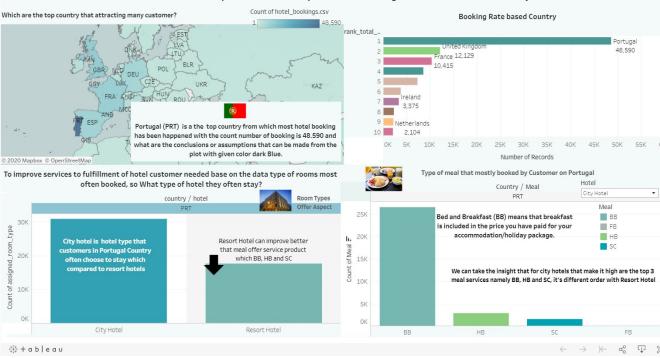
The R portfolio is located [here](#).

Note: Data used in the projects (and some code) is available on my GitHub.

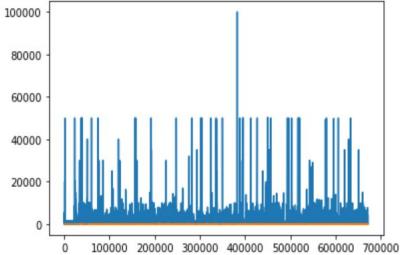
Contents

- Machine Learning

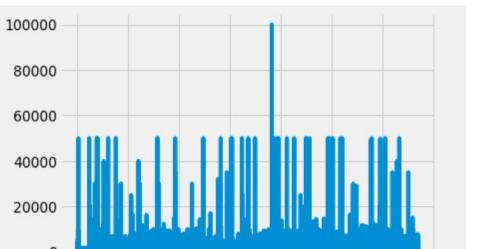
○ Predicting Boston Housing



```
In [25]: plt.plot(loan_based_conflict)  
Out[25]: [<matplotlib.lines.Line2D at 0x2349c500c88>,  
 <code><matplotlib.lines.Line2D at 0x2349c505a48>]
```



```
In [26]: plt.style.use('fivethirtyeight')  
plt.plot(loan_based_conflict)  
Out[26]: [<matplotlib.lines.Line2D at 0x2349c572088>,  
 <code><matplotlib.lines.Line2D at 0x2349c578a48>]
```



Take up the Course, Bootcamp and Complete it



Build Online Profile To Find Job Vacancy



Ferisa Tri Putri Prestasi

Data Engineer at PT Multipolar Technology Tbk

Tangerang, Banten, Indonesia · 500+ koneksi · [Informasi kontak](#)

[Tambahkan target](#)

[Tambah bagian profil](#)

[Lainnya...](#)

PT Multipolar Technology Tbk

Institut Teknologi Sepuluh
November



Pengalaman

Lisensi dan Sertifikasi

Pendidikan

Pengalaman kerja sukarela

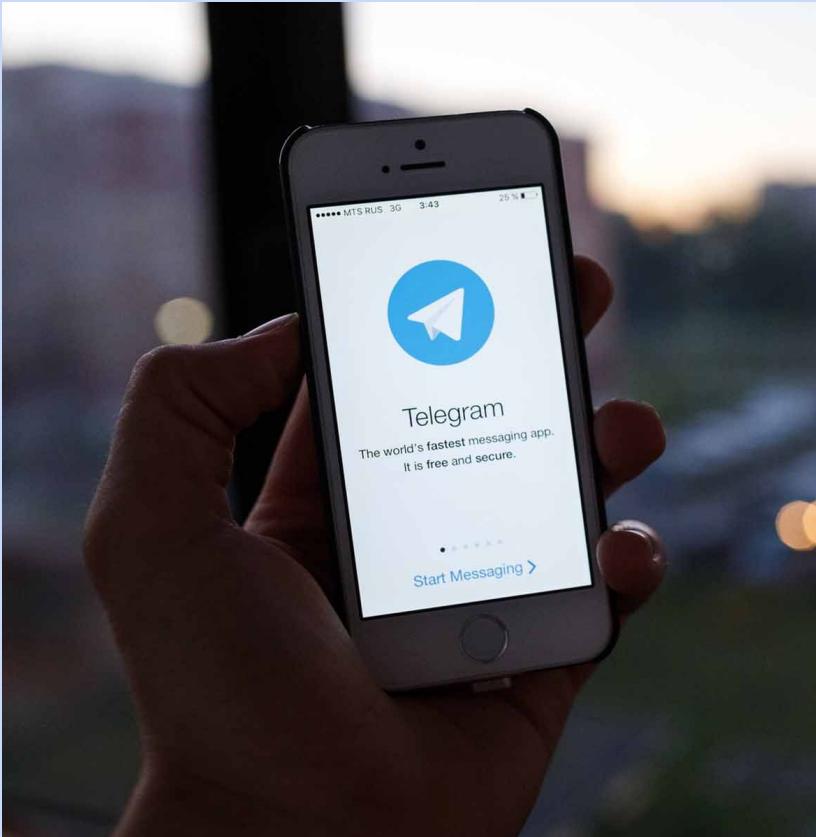
Keahlian dan Rekomendasi Keahlian

Pencapaian

Minat

- Data Engineer**
Traveloka
Jakarta, ID
 11 koneksi bekerja di sini
1 minggu yang lalu
- Security Software Engineer** Dipromosikan
Security Research Labs
Jakarta, Indonesia
 Merekрут secara aktif
5 hari yang lalu • [Melamar Mudah](#)
- Lead Data Engineer** Dipromosikan
PT Tokopedia
Jakarta, Indonesia
 3 alumni perusahaan bekerja di sini
1 minggu yang lalu
- Data Scientist - QuantumBlack**
QuantumBlack
Jakarta, ID
 Profil Anda cocok dengan pekerjaan ini
6 hari yang lalu
- Junior Data Engineer**
Jakarta, ID
 1 minggu yang lalu
- Data Engineer**
TRIPATRA
Tangerang, Banten, Indonesia
 Profil Anda cocok dengan pekerjaan ini
2 minggu yang lalu • [Melamar Mudah](#)
- Data Scientist**
Home Credit Indonesia
Jakarta, Indonesia
 Profil Anda cocok dengan pekerjaan ini
6 hari yang lalu • [Melamar Mudah](#)
- Database Engineer**
Shopee
Jakarta, ID
 36 alumni bekerja di sini
1 bulan yang lalu
- Data Scientist**
HappyFresh
Jakarta, ID
 4 koneksi bekerja di sini
- Data Scientist - QuantumBlack**
QuantumBlack
Jakarta, ID
 Profil Anda cocok dengan pekerjaan ini
6 hari yang lalu
- Data Scientist**
HappyFresh
Jakarta, ID
 4 koneksi bekerja di sini
1 bulan yang lalu
- Lead Data Engineer** Dipromosikan
Michael Page
Jakarta, ID
 Merekрут secara aktif
1 minggu yang lalu • 10 pelamar
- Head of Data Science** Dipromosikan
Robert Walters
Jakarta, ID
 Merekрут secara aktif
1 minggu yang lalu • 18 pelamar
- Lead Data Engineer** Dipromosikan
PT Tokopedia
Jakarta, Indonesia
 37 koneksi bekerja di sini
1 minggu yang lalu
- Data Scientist**
Home Credit Indonesia
Jakarta, Indonesia
 Profil Anda cocok dengan pekerjaan ini
6 hari yang lalu • [Melamar Mudah](#)
- CVM Data Science**
PT. XL Axiata Tbk
Jakarta, Indonesia
 6 koneksi bekerja di sini
2 minggu yang lalu • [Melamar Mudah](#)
- Data Engineer**
Traveloka
Jakarta, ID
 11 koneksi bekerja di sini
1 minggu yang lalu
- Data Scientist - GoMerchant**
Gojek
Jakarta, ID

JOIN COMMUNITY OR GROUP



The image shows a person's hand holding a smartphone. The screen displays the Telegram app's start page, which features a large blue circle with a white telegram icon, the word "Telegram", and the text "The world's fastest messaging app. It is free and secure." Below this is a "Start Messaging >" button. The phone's status bar at the top shows "MTS RUS 3G" and "3:43". The background is a blurred landscape of a sunset or sunrise over water.

Below the phone, there is a vertical list of 12 recent notifications from various groups:

- Python Indonesia: Tron Morpheus joined the group (14:06)
- Machine Learning ID: PIERRE-ANTOINE donald joined the group (14:06)
- Surabaya.py: Dimas: Album (13:43)
- DevFest 2019 Surabaya: Téléagram ♀ members Private and group Promotio♀ ≡ T... (13:29)
- MATLAB TIPS: #FileExchange #UpdateRecently aditya00/simulink_ma... (13:28)
- Data Science Indonesia: Muhammad: We are looking for AI Software Engineers wh... (11:55)
- Data Engineering Indonesia: Reny: Hi all PT BTPN Syariah is hiring Data Engineer to jo... (10:25)
- IDBigData Official Group: steven: Photo, Hi, Tech Enthusiast! Di zaman yang serb... (10:16)
- Artificial Intelligence & Data Science Series: Kev: https://youtu.be/aArfikG8_TU Memahami Confiden... (9:35)
- datascienceinfo: Photo, <https://www.instagram.com/p/CiQuXjwgWkI/?igsh...> (23:16)
- ALUMNI PROGRAM NARASIO DATA - DATA SCIENCE ...: Tue (23:16)

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Thanks for listening!

Any Question?



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