Mastering the Data Science Interview

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Slides: https://bit.ly/2JRWnKZ

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WELCOME TO CONVOY

Our passionate team is committed to our mission of transporting the world with endless capacity and zero waste. Founded in 2015, Convoy has quickly grown to over

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Convoy, Flexport automating th

https://www.cnbc.com/2019/05/15/convoy-flexport-automating-the-shipping-industry.html

Emerging tech for emerging markets.

Nasdaq

REWRITE TOMORROW →

CNBC DISRUPTOR 50

Nasdaq

The next Uber will come from the $1.2 trillion global truck and shipping industry

PUBLISHED WED, MAY 15 2019 • 8:32 AM EDT | UPDATED WED, MAY 15 2019 • 4:11 PM EDT

Joel Dreyfuss

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KEY POINTS

- The U.S. trucking market generates $260 billion in revenue, 20% of a $1.2 trillion global market

Nasdaq

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Digital Freight Startup Convoy | Convoy, Flexport automating th

https://www.wsj.com/articles/digital-freight-startup-convoy-raises-185-million-surpasses-1-billion-in-value-1537524002

DOW JONES, A NEWS CORP COMPANY

DJIA 25851.19 0.67% ▲ Nasdaq 7789.55 1.13% ▲ U.S. 10 Yr -1/32 Yield 2.433% ▼ Crude Oil 62.97 -0.21% ▼ Euro 1.1161 -0.05% ▼

THE WALL STREET JOURNAL.

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TEXT

2

BUSINESS | LOGISTICS REPORT | WSJ LOGISTICS REPORT

Digital Freight Startup Convoy Raises $185 Million, Surpasses $1 Billion in Value

CapitalG, investment arm of Google parent Alphabet Inc., led a funding round aimed at backing the business in the growing field of digital freight booking

Waiting for tr.snapchat.com...

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WHEN PEOPLE ASK ME TO DESCRIBE MY DREAM JOB, I'M NEVER SURE HOW REALISTIC TO BE.

Why
Process
Data science topics
Gaming the process

Why

Why

- **Calibration:** Some data scientists spend months or years preparing for interviews. You’re competing with them.
- **Familiarity:** Writing code at a whiteboard is unusual. If you have to do it, you may as well do it well

Process

People

- First link
  - **Sourcer**: Working in bulk
  - **Referer:** Your advocate
- **Recruiter**: Your advocate
- **Interviewers**: Limited time to evaluate you
- **Hiring Manager**: Stakeholder / decision maker

Steps

- **Begin relationship:** Refer / apply / source finds you
- **Non-techncial screen**: Culture fit / minimum skill set on paper
- **Technical screen**: Minimum skill set
- **Take home / data challenge:** Usually requires 5-10 hours
- **Onsite**: Culture fit, able to add value, able to collaborate
- **Follow ups**: Salary, manager, timing
- **Offer**: $

Artifacts

- Resume
- LinkedIn
- Data challenge submission
- Internal packet / scores

Phone -> Phone ->
Data Challenge -> On-site ->
Offer

Data science topics

Common questions

- **Data splits:** Train / test, cross validation, stratification, sampling concerns, etc
- **Regularization**: L1 & L2, dropout, data augmentation
- **Model validation:** Metrics, SLAs, use cause, audience

Common interviews

- **What would you do?:** Given a data set, describe your modeling workflow
- **Case study**: Given model outputs, make a presentation
- **Algorithm:** Let's write KNN!
- **Presentation:** Present a project you've done

Gaming the process

CRACKING
the
CODING INTERVIEW
189 PROGRAMMING QUESTIONS & SOLUTIONS
GAYLE LAAKMANN MCDOWELL
Author of Cracking the PM Interview and Cracking the Tech Career
6TH EDITION

METIS

Resume

- Optimize for each person (recruiter, interviewer, hiring manager)
- Optimize for 10 second read, 30 second read, 5 minute read
- Communicate your accomplishments clearly and succinctly
- Have someone look at your resume, and try to repeat is blind

LinkedIn

- See resume
- + Have a professional picture

Evaluation criteria

At all times, communicate:

- **Technical skills:** What can you bring to the table
- **Interpersonal skills:** Are you an enjoyable person to spend time with?
- **Collaborative skills:** Can you build things while working with other people?

Gotchas

- **Don’t lie:** Unless you know that you won’t get caught
- **Ego:** Some shops are looking for people with egos. Some people avoid the ‘genius jerk’ like the plague
- **Depth:** Understand that you will know some areas better than the interviewer (be humble), and that the interviewer will know many areas better than you (be interested and honest)
- **Passion:** Act like every job is your dream job. It might actually be.

Opportunities

- Work your network!
- Show passion for previous work
- Speak positively of everyone you've ever worked with
- Challenge the interviewer

LIFE SCORECARD
TIMES WHEN I THOUGHT...
"I'M NOT REALLY HAPPY HERE, BUT MAYBE THIS IS THE BEST I CAN EXPECT AND I'LL REGRET GIVING IT UP."
...IT TURNED OUT I...
SHOULD HAVE STAYED
SHOULD HAVE LEFT SOONER
11
~~////~~ ~~////~~ ///

Thanks!

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