Visit https://bit.ly/ds-dojo-2024 for material



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Knight Chair in Data Journalism, Columbia University

About me

- **Professor in Data Journalism** at Columbia Graduate School of Journalism
- Studied Cognitive Science @ UVA
 - Almost computer science...but no!
- Machine Learning and AI @ Columbia
- Worked for New York Times, ProPublica, founded a data news team at the nation's largest radio station
- Non-traditional path into journalism and academia (web development, design, education)



why are you learning from a data journalist?

it's a very good question.

journalism layoffs...

ALLORING COLORS

September 4, 2024 Publishers ම් 🐞 🔹 💷 🚺 ව 🖷 News media job cuts 2024 tracked: Ga POLITICO Time, Axios, Tampa Bay Times, NYP Hollywood Reporter all hit in August Over 500 journalists were laid off in January 2024 alone Big losses at the likes of The Messen Times, Sports Illustrated and Medial Ireland started 2024.

By Charlotte Tobitt



A giant CNN sign is seen at the entrance to the CNN Center in Atlanta, 2022. Picture: Shutterstock/Tada Images

The Los Angeles Times laid off 20% of its newsroom in January. 0 NBC News and MSNBC laid off around 75 employees in January. X Sports Illustrated laid off most of its staff (around 100) after it failed to pay licensing fees in to its parent company in January. cP Time laid off 15% of its staff, or roughly 30 employees, in January. Business Insider CEO Barbara Peng announced a staff reduction of 8% in January. Forbes reduced its staff by 3% in late January. TechCrunch laid off a handful of staffers and is going to end its paid subscription options. The Messenger, a news startup, shut down entirely at the beginning of February after less than a year in operation, leaving more than 300 employees jobless. The Wall Street Journal let 20 staff members go at its Washington, D.C., bureau in early CBS News also cut 20 jobs at its D.C. bureau in early February, as a larger round of 800

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SUBS

FC News and media layoffs 2024 × +

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≌ອ fastcompany.com/91035879/new... ຜ່

announced layoffs in the media sp. ASTOMPANY

 The Intercept laid off 15 staff members, including its editor-in-chief, in mid-February. NowThis cut half of its editorial team in mid-February, a loss of 26 jobs.

 BuzzFeed sold one of its sub-brands, Complex, this week, and subsequently announced a 16% reduction in staff. This comes after shuttering its entire news division last year.

Vice Media will stop publishing on Vice.com and will lay off hundreds, per recent reports.

 WAMU radio, the NPR affiliate in Washington, D.C., said it will shut down the local news website DCist and lay off its staff.

apnews.com/.../vice-media-layoffs-bruce-dixon-34...

By KIERRA FRAZIER

More than 100 employees were let go from The Los Angeles Times in January. | Patrick T. Fallon/AFP via Getty Images 02/01/2024 07:31 AM EST f 🖌 🕲 🕠

MEDIA

11

The job cuts come after an already bleak year in the news business.

politico.com/news/...



data is <u>flexibility</u>

taking information,
explaining it to others

new business plans

- Non-journalism companies need to communicate
- A journalism organization in Brazil scrapes legislation, organizes and categorizes it, then sells the information to lawyers
- Skilled interactive news and graphics teams do development work for large, well-paying clients to support their journalism work
- With a little extra knowledge and skills, many many many many more things are possible





タの意味を読み解き、深い洞察力を身に着ける必要があります。データサイエンティストとしてのスキルを学ぶに とどまらず、データに裏打ちされた仮設を検証する思考回路を要請するのが、この研修の主たる目的です。「仮説 を立てる」→「データを集める」→「データを分析する」→「ビジュアライゼーションによって、理解と洞察力を 深化する」→「チームで共有し、次なる仮設を立てる」このサイクルを繰り返すことによって、より精度の高い事 業計画や中期経営計画の立案が可能になります。



- We are <u>not</u> aiming for expertise!
 We are aiming for <u>foundational</u> <u>knowledge</u>
- •We want to be <u>adaptable</u>

"with time, I can accomplish this" ...almost? maybe? What you don't know, you can learn. With a good foundation, everything is possible.



Turn to the people next to you, in front of you, behind you. Introduce yourself. Where are you from + why are you here?

ask questions!!

asking questions is **how you learn**, and I am sure everyone wants to know the same thing

Our schedule

- Monday through Friday + Monday
 - Class during day
- Homework
 - Optional!
 - A large amount for learning later
- This Friday: Working on personal projects
- Next Monday: Project presentations



What we'll learn

- Coding: Fundamentals of Python
- Data analysis: pandas (Excel for Python)
- Structured data: APIs
- Unstructured data: Scraping
- AI tricks: Transcription, data tools, app building
- Data visualization: Coding and no-code tools
- Project planning: Make sure you finish!

Python programming

- Fundamental to every other skill
- A superpower that allows you to do anything
- Not just "coding": Python is special
 - Academic for research
 - Industry for software development
 - Online tools, desktop applications, databases
 - Powers most of the AI tools

Data analysis

- A person produces ~6GB of data per hour
- Excel has limitations, so we turn to Python
- Data makes arguments more convincing
 - ...but that makes me sad
- Just one more source of information

Structured data

- Data that is easy for computers to understand: Excel, CSV, XML, JSON, APIs, databases
- APIs: Computers talking to computers
- Available from governments and industry
- Easy to reformat or process to display to members of your company or customers
- Add value by combining with other data

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| 1208 奈良県 福林 | 市 2920 | 61 | 1.338 | 1.416 | 1 | 617 | 1.73 | 1 | 2.579 | 2,884 | 3 | 582 | 2.788 | + | 2.90 |
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Unstructured data

- Data that is easy for **people** to understand
 - Our job is to make computers understand it
- Scraping data from websites
- Extracting data from text or PDFs
- Add value by processing it!



AI tricks

- Accomplish impossible tasks!
- Be successful with skills you don't have
- Get better with skills you do have
- Automate "grunt work" and "intern jobs"
- It's for more than rewriting emails :)

Data visualization

- Communicating with data is difficult
- Sell your content more effectively
- Everyone loves charts and graphs!

Project Planning

- Estimating time is <u>very difficult</u> for tech projects
- Finishing is the hardest part

Hello world: AI!

we have a secret weapon, it's artificial intelligence

perfect

error-resilient tasks

You Write a sonnet about my fat, mean cat Mulberry.

ChatGPT \$

Beneath the moon, Mulberry takes her throne, A cat of girth, with fur like midnight's shade. Her eyes, twin emeralds, cold as stone, Within their depths, her fierce commands are made.

Her claws, like daggers, glint in soft moonlight, A queen who rules with strict and stern decree. Her growl can turn the bravest heart to fright.

She curls beside me, softening I Revealing tender moments, warr For though she's fat and often se In dreams, sweet Mulberry's a gei ()) ① ② ⑦ 冬~







- Clear division of labor between AI and person
- One task for AI, one task for human
- Intuition of humans, trust in AI

- Intertwined, deep integration of AI into human work
- Collaborative, back-andforth process

we will be both!







https://bit.ly/ds-dojo-survey

Software Installation

Usually the worst part. This time, not terrible!

Running+Installing Python

• • •

4

O ANACONDA.NAVIGATOR

Documentation (26) Training (1)

O Anaconda Navigato

...

A Home

Python Wrangler

Python Installations

We found **19 Pythons** installed on your system. There might be more if they're exceptionally polite about hiding when not in use.

| | Command | Version | Installation | Packages | Location(s) |
|------------------|---------|---------|------------------------------------|--------------|---|
| Python Wrangler | python | 3.6.4 | pyenv 2018-04-15 | 75 packages | /Users/jonathansoma/.pyenv/shims/python |
| | python3 | 3.6.4 | pythonorg | 18 packages | /Library/Frameworks/Python.framework/Versions/3.6/bin/python3 in PATH symlink |
| Pythons | | | 2018-02-25 | | /usr/local/bin/python3 in PATH symlink |
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Running+Installing Python

- Anaconda: Popular with data scientists
 - Simple installation
- Visual Studio Code: Popular for web site development
 - Integration with many common tools
- Google Colab: In the cloud, popular for AI development
 - Easy access to powerful computer resources
- Jupyter: Popular with data sciences and data journos
 - Good for having "conversations" with your data
- It doesn't matter which you use!!!!!! They are all a little difficult to set up and use.

JupyterLab Desktop https://bit.ly/ds-jupyterlab

- •Windows, Macs, Linux
- •Very easy to install
- •No trouble with Python
- Easy to change to more "professional" tools" later

Jupyterlab





Installation

https://bit.ly/ds-jupyterlab

- Download and run the installer
 - Security warning? Say yes!
- After installation, open the JupyterLab Desktop app
- Maybe it maybe will want to install Python: there will be a banner to click on the bottom.
- Grey "New notebook?" Close, open again, look for Python install



You should see this

Welcome





- Easy to get started
- Easy to see results
- Common in business environments
- Easy to make mistakes

- Difficult to install
- Difficult to begin learning
- Difficult to share with non-programmers
- Everything is possible!

Problems with Excel



SCIENCE / TECH / MICROSOFT

Scientists rename human genes to stop Microsoft Excel from misreading them a dates / Sometimes it's easier to rewrite genetic than update Excel

By James Vincent, a senior reporter who has covered AI, robotics, and more for eight years at The Verge. Aug 6, 2020, 9:44 PM GMT+9

P f 6 Comments (0 New)

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Analysis

Covid: how Excel may have caused loss of 16,000 test results in England *Alex Hern UK technology editor*

Public Health England data error blamed on limitations of Microsoft spreadsheet

- Coronavirus latest updates
- See all our coronavirus coverage



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 $\underline{\text{Explore all metrics}} \rightarrow$

Abstract

Excel errors

94% have faults!

Along with the high popularity of spreadsheet applications [10], it was found that about 94% of the spreadsheets in use contained faults [11,12]. A major reason for a high number of faulty spreadsheets is the accelerating trend in end-user computing (or end-user programming) over the last few decades [13–15]. Spreadsheet development, now a prominent example of end-user computing [16,17], has shifted from being often done by well-trained IT professionals to something millions of non-technical departmental end users or end-user programmers are now responsible to do. As most end-user programmers are not well trained in software development and testing [18], it is not surprising that many spreadsheets they developed are poorly coded and inadequately tested [19]. Consequently, these spreadsheets are likely to contain faults that are not properly detected and removed before release for daily operational use.

From "Spreadsheet quality assurance: A literature review"



Visit https://bit.ly/ds-dojo-2024 for material



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Knight Chair in Data Journalism, Columbia University



Music nltk_data Pictures

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ers



https://jonathansoma.com/projects/charsets/

Python basics

I hope it is review, but if not: that's okay!



https://bit.ly/ds-dojo-python-quiz



Music nltk_data Pictures

Simple 0 5 1 @

Launcher 1

02-scraping.ipynb ~/Library/CloudStorage/Dropbox/...

let's do some work!

time to try out some Python



Can you build it?

■ ヴィキペディア フリー百科事典

目次 非表示

ページ先頭 「言語」と「方言」

方言の分布

> 全国方言概観

参考文献

関連項目

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 出典: フリー百科事典『ウィキペディア (Wikipedia)』

 ビード
 「本土方言」はこの項目へ転送されています。朝鮮語の本土方言については「朝鮮語#方言」をご覧ください。

 ビード
 Co記事は検証可能な参考文献や出典が全く示されていないか、不十分です。出典

 を追加して記事の信頼性向上にご協力ください。(このテンプレートの使い方)
 出典検索?: "日本語の方言" - ニュース・書籍・スカラー・CiNii・J-STAGE・NDL・dilb.jp・ジャパ

 ンサーチ・TWL (2021年2月)
 ンサーチ・CiNii・J-STAGE・NDL・dilb.jp・ジャパ

日本語の方言(にほんごのほうげん)、すなわち日本語の地域変種(地域方言)について記述する。

日本語は語彙・文法・音韻・アクセントなどあらゆる面で地方ごとの方言差が大きく、異なる地方に転居や旅 行した際に、言葉が通じず苦労する場合が少なくない。日本語の方言は大きく「本土方言」と「琉球方言」に 分かれ、それぞれがさらに細分化できる(区分章を参照)。明治以降、東京方言をもとに標準語の確立と普及 が進められ、地方の方言はそれを阻害するものとして否定的にとらえられるようになった。共通語(第二次世 界大戦後、標準語から共通語へと呼称が変わった)と、方言の共存が模索されるようになったが、実際には各 地の伝統的な方言は急速に衰退・変質している(歴史・近代以降章を参照)。

日本では「方言」という語は、「めんこい」「おもろい」「ばってん」のような共通語(標準語)とは異なる各 地方独特の語彙や言い回し(「俚言」)、あるいはアクセントや発音の違い(いわゆる「なまり」)を指す場合が 多い。しかし、言語学ではアクセント・音韻・文法などをすべてひっくるめ、「その地域社会の言語体系全体」 を指すのが一般的である。すなわち、東京という一地域の日本語の体系ということで「東京方言」も当然存在 する。

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「言語」と「方言」 [編集]

「琉球諸語#言語か方言か」も参照

本土方言と琉球方言は、文献時代に入る以前に分岐し、その後 の往来も少なかったため、一聴する限り外国語同士に聞こえる ほどの差が生じた。そのため、琉球方言を「琉球語」として、

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