



Laura Brennan

Senior Data Scientist

June 2025



Optum

2013- 2017



Degree

BA in Business
and Sociology

2017-2018



Grad Program

Financial Services
Consulting

2019 onwards



Certificate

Business Intelligence



Masters

Public Health



Micro Credential

Programming in Python

Consulting Analyst



Healthcare Analyst



Healthcare Consultant



Snr Data Analyst



Snr Data Scientist

- Project manager
- Scrum Master
- MS PowerPoint
- MS Outlook

From scrum master to data scientist...a WIP



Main roles:

- Building models to predict certain health events
- Statistical analysis



Tech Stack:

- Python
- Spark and Pyspark
- SQL
- Databricks
- Airflow
- statsmodels



How I keep learning:

- Udemy
- LinkedIn Learning
- Data Camp
- Medium
- My teammates

How well do you know your (*strange*) ICD-10 codes?

What are ICD-10 Codes?

ICD-10 is the 10th revision of the International Classification of Diseases (ICD), a medical classification list by the World Health Organization (WHO)

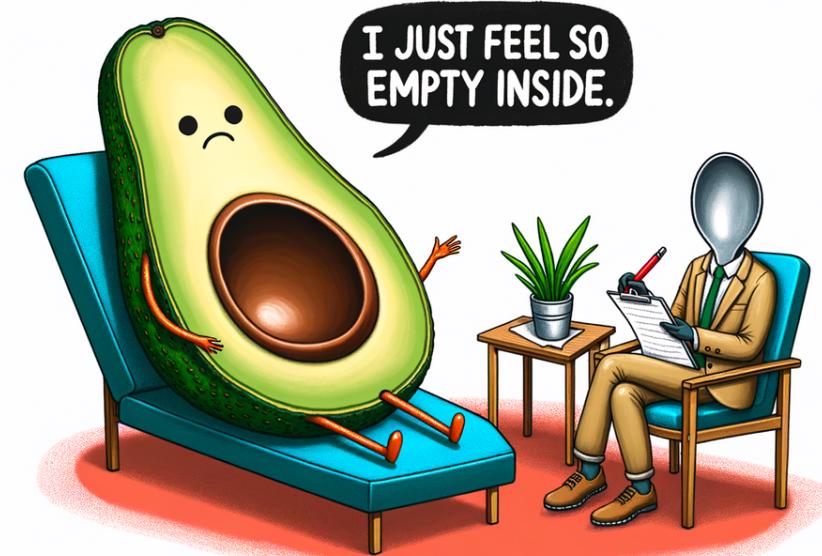
It contains codes for diseases, signs and symptoms, abnormal findings, complaints, social circumstances, and external causes of injury or diseases

14,000 codes

Some ICD-10s are arguably a little strange

What is DALL-E?

DALL-E, DALL-E 2, and DALL-E 3 (pronounced DOLL-E) are text-to-image models developed by OpenAI using deep learning to generate digital images from natural language



An image generated by DALL-E 3 based on the text prompt "An illustration of an avocado sitting in a therapist's chair, saying 'I just feel so empty inside' with a pit-sized hole in its center. The therapist, a spoon, scribbles notes"

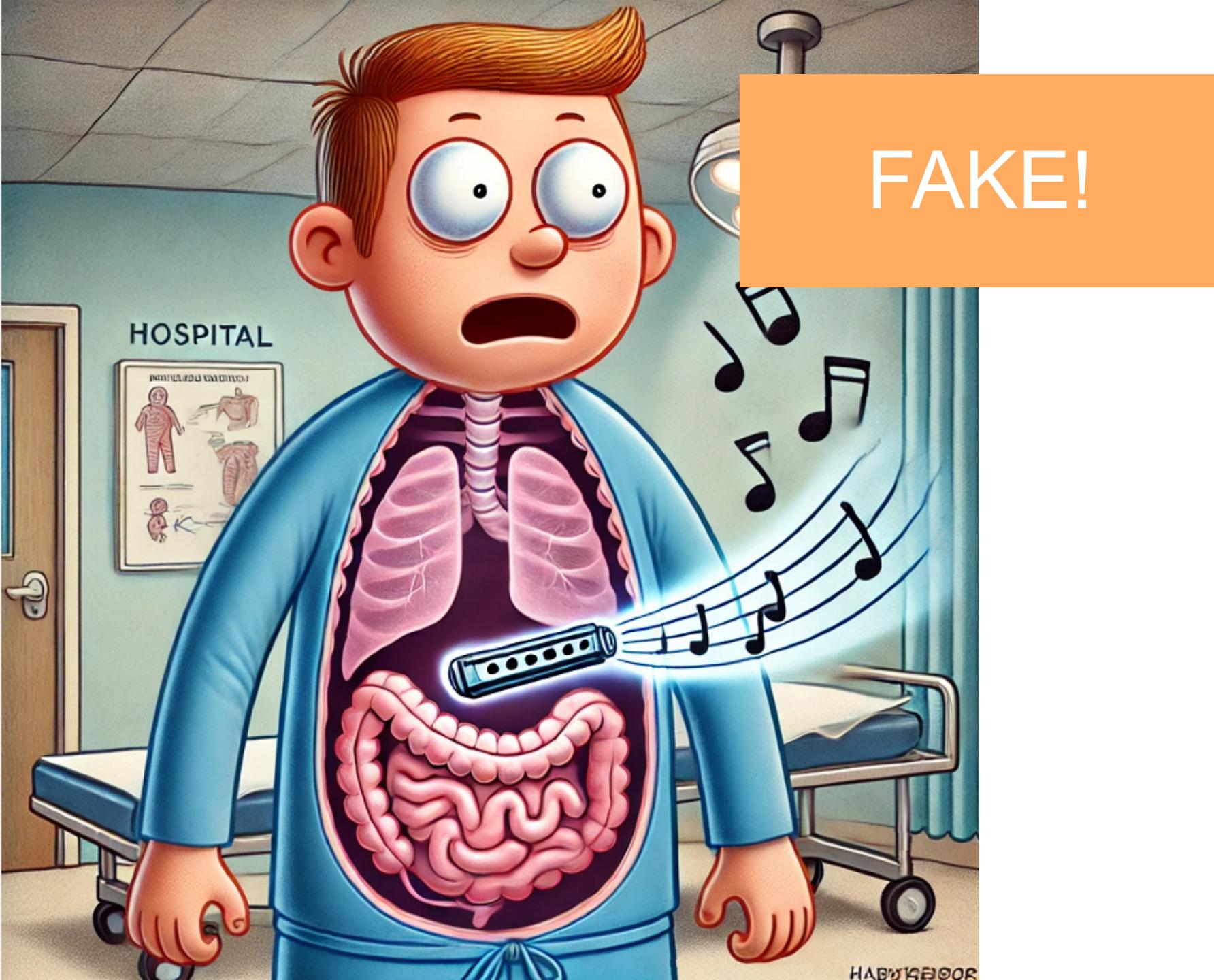


W61.02
Struck by
parrot



REAL!

Y92.241
Injury at library



X22.22
**Accidentally
swallowed
small musical
instrument**

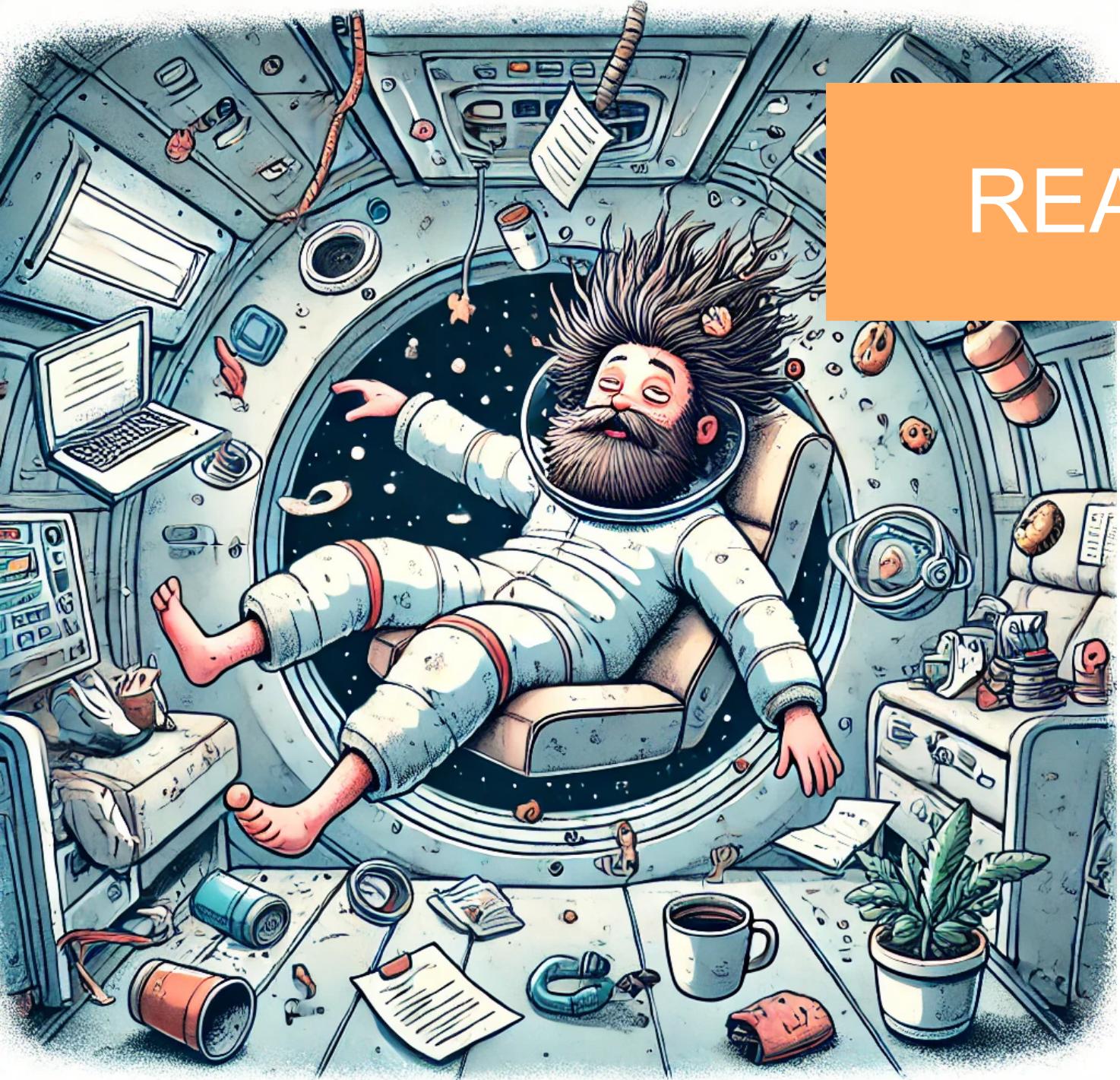


REAL!

V91.07XA
Burn due to
water-skis on
fire, initial
encounter



W59.83
Crushed by
other
nonvenomous
reptiles



X52.0
**Prolonged stay
in weightless
environment**



Y93.D1
**Injury while
knitting or
crocheting**



REAL!

Y93.D9
Injury
involving
activities arts
and handcrafts



REAL!

Y92.253
Injured at an
Opera House



REAL!

Z56.4
**Discord with
boss,
employer,
fellow
employees, or
workmates**



REAL!

V95.43XA
Spacecraft
collision,
injuring
occupant



V97.33XD
**Sucked into jet
engine,
subsequent
encounter**



T56.4
**Accidentally
hit by drone
delivering
pizza**



REAL!

W51.XXXA
Accidental
striking
against or
bumped into
by another
person



REAL!

W56.11XA
Bitten by a sea
lion, initial
encounter



REAL!

Z63.1
**Problems in
relationship
with in-laws**



W59.22XA
Struck by a
turtle, initial
encounter



Q99.4
Severe anxiety
caused by
overly intense
board game
competition
with family



V99.3
**Accidentally
launched self
from office
chair during
intense
argument with
printer**



REAL!

W220.2XD
Walked into
lamppost,
subsequent
encounter



FAKE!

R28.9
**Injury caused
by stepping on
child's
misplaced
LEGO during
morning rush**



Q89.1
Fell off
exercise ball
while
attempting to
check work
email during a
yoga pose



REAL!

**V97. 22 for
Parachutist
injured on
landing**



FAKE!

K72.1
**Overly excited
celebration
leads to
collision with
ceiling fan**



FAKE!

Y88.3
**Accidentally
knocked over
by sentient
laundry basket
during house
cleaning**



FAKE!

W66.7
Injury from
overenthusiast
ic virtual
reality game
session



FAKE!

Q33.1
Frightened
into injury by
surprise robot
vacuum
encounter



W73.4
**Accidentally
knocked out
by own
enthusiastic
high-five**



T58.2
**Fainted after
accidentally
drinking decaf
coffee instead
of regular**



FAKE!

G99.8
Accidentally cloned self
while
attempting a
simple DNA
extraction in
home lab,
resulting in
confusion and
identity crisis



FAKE!

R92.4
Injured while
attempting to
juggle office
supplies
during team
meeting

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