Reviewing Patient Triage with ChatGPT

Case Study 1

For Healthcare Professionals, what are potential ethical, governance, and fairness concerns?

For Healthcare Professionals, what strategies might we use to avoid the issues?

Use deepfake to hide faces but increase patient data in flow

Decentralize

Healthcare professionals would make the final decisions.

A responsible care provider must oversee the result

Beats me

Always review any analysis made by the healthcare AI, rather than assuming it is right. Or have a healthcare review panel

Explain

Human control and monitoring

Create a physician friendly interpretation of the chatgpt results

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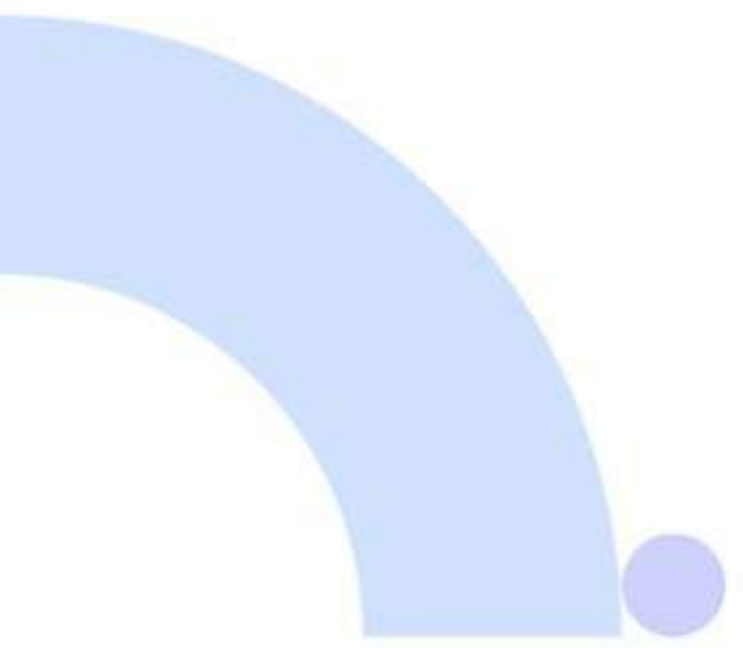
For Healthcare Professionals, what strategies might we use to avoid the issues?

Start small, then expand scope. Physicians as the final decision maker every time.

Use output as an independent datapoint
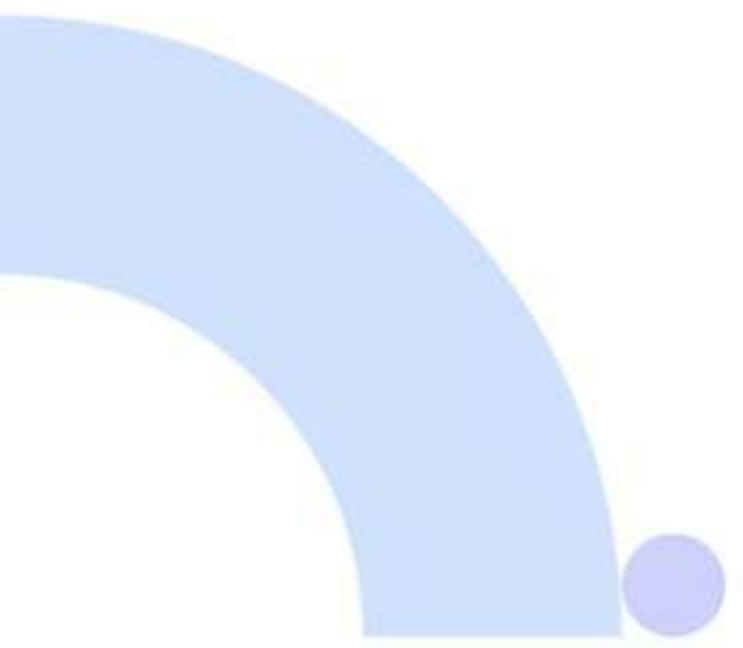
Healthcare professionals + ChatGPT

Adaptable

Use a diverse dataset

Idk

have the ability to look at multiple perspectives in order to come to the best conclusion

Reduce bias by extending dataset

Liability

For Healthcare Professionals, what strategies might we use to avoid the issues?

Bias	Privacy	Being triaged by a computer.
Physician-patient rapport	Who is accountable for wrong diagnosis	Trust
kindness	Increase confidence in results	Reduced profits

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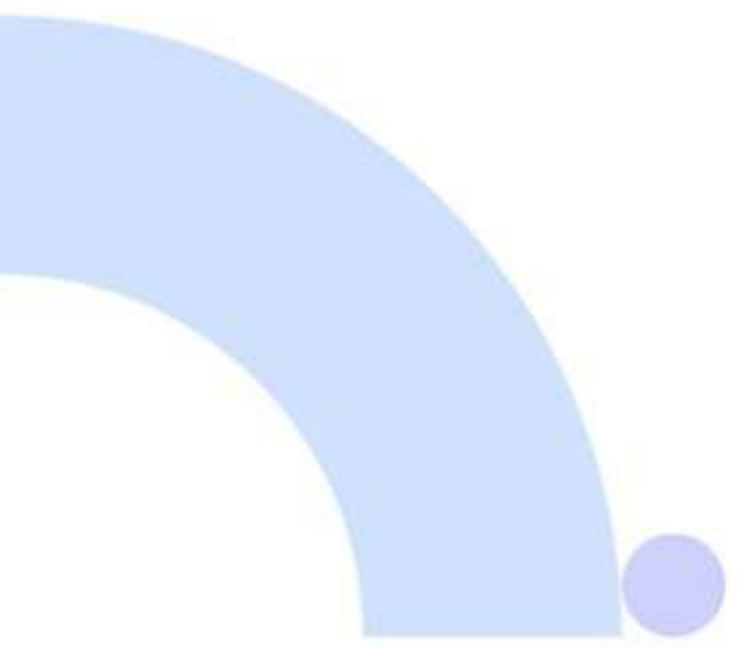
For Healthcare Professionals, what strategies might we use to avoid the issues?

| patient aware of risk | Rationing care | Margins |

For Patients, what are potential ethical, governance, and fairness concerns?

breach of data

not represented in train

religious objections to   selling data   predictive analysis

outdated data   trust for the diagnosis

lack of human contact   harm   **bias**   confidentiality   inequality

distrust

cost   **privacy**   anonymity   errors

mistrust of ai systems

triaged by a computer   **accuracy**   time   hacking   racism   equality

inaccuracies   **incorrect diagnosis**

inaccuracy   misinformation   speed of diagnosis

unwanted advertisements

consent   unfair treatment

3rd party selling data

For Patients, what strategies might we use to avoid the issues?

Consent	Transparency	Final check from healthcare professional
Data encryption	Get permission	Deepfake a health care professional to mimic human interaction
Train the model with unbiased data.	Provide a way for patients to give feedback	Explain what the ai can and cannot do

For Patients, what strategies might we use to avoid the issues?

Informed consent

Final check from healthcare professional

Have the data created by the patient available for the patient to view.

Increased involvement in the process

Gain trust

Deepfake

Have the option to transfer to traditional care

Hybrid treatment involving a human health care professional

Explain how it works, don't leave them uninformed

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For Patients, what strategies might we use to avoid the issues?

continuous monitoring of AI performance, always have a responsible healthcare professionals oversee the result. Transparency on AI process

Use a diverse data set

Centralized, coherent explanation from gov or healthcare

Thorough explanation

Assure them that no privacy data leakage will happen

Do not give any information regarding the race

minimize lawsuits

For Insurance Companies, what are potential ethical, governance, and fairness concerns?

avoid unnecessary tests

ai as sole coverage   transparency

lots of guidelines   roi   liability

accuracy

small data sets   expensive

minimize lawsuits   cost   scams

too expensive   review of data

bigger coverage

avoid misdiagnosis

finding out who is liable

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For Insurance Companies, what strategies might we use to avoid the issues?

Great Lawyers	Proper diagnosis report	Creating their own algorithm
Third party monitoring of the system	Get a good lawyer	higher premiums
Lobbyists	trustee	Maintain current coverage options in addition to AI options

For Insurance Companies, what strategies might we use to avoid the issues?

| Frequent audits | Not saving actual names | Creating a customized model . |

AI-assisted Healthcare Decision-making

Case Study 4

For Healthcare Professionals, what are potential ethical, governance, and fairness concerns?

For Healthcare Professionals, what strategies might we use to avoid the issues?

Transparency

Large diverse dataset

Right decision making

Education

Throughly analyze decisions that factor in AI

Proper education

You can't avoid issues but you can mitigate them!

Approving the AI results

Opt in to data set

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For Healthcare Professionals, what strategies might we use to avoid the issues?

Involve all stakeholders in decision making.

Better education

Wotk with the AI

Training

Correct expectancy of model's performance

Double check by professionals/people have final sayEducation on AIEducation on appropriateness of tool

Using this a tool not as a replacement to clinical decision making

Extensive data analysis and appropriate structuring through the system

Take an ethics workshop :)

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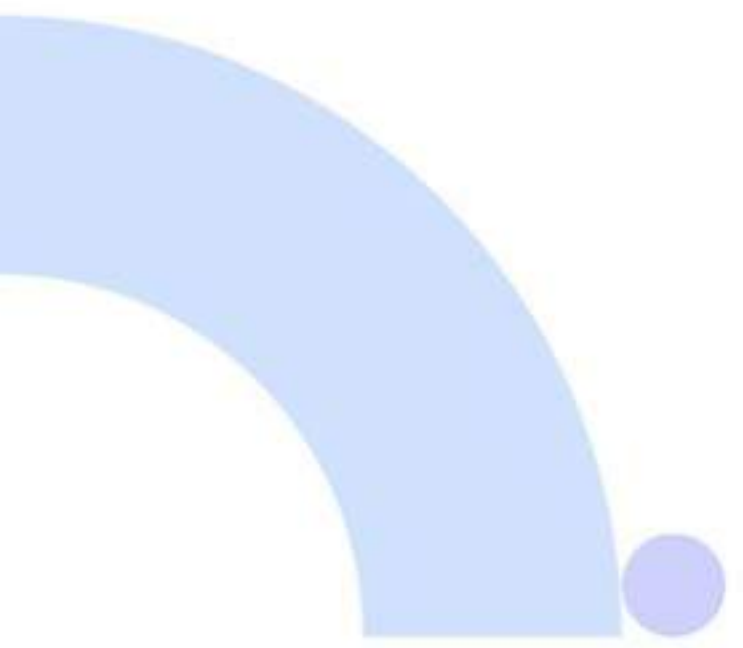# For Healthcare Professionals, what strategies might we use to avoid the issues?

Training

Understand the tool properly

Feedback regarding diagnosis

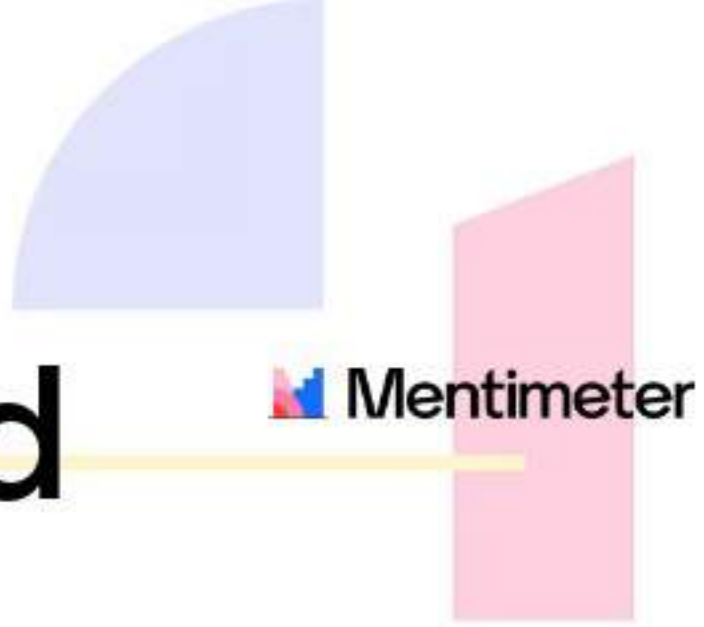gain concensus via training & education.
Adopt slow, one application at a time.
make it transparent

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For Patients, what are potential ethical, governance, and fairness concerns?

For Patients, what strategies might we use to avoid the issues?

Trust	Ask questions	Consent
Transparency	Trust	Explainability
Security	Better education	Transparency

For Patients, what strategies might we use to avoid the issues?

empower patients to ask questions

Good doctor-patient relationship.

Timely response

Accessibility of data, working with the AI companies as stakeholders

Giving longer responses 😊

Good doctor-patient relationship

Strong education regarding AI, limited access to software, transparent process

Regulations

Determining liability

For Insurance Companies, what are potential ethical, governance, and fairness concerns?

accurate diagnosis

misdiagnosis claims   lawsuites

accountability

unethical practices

bias

accuracy   financial issues   fraud   over-reliance

fairness   over-relianc   cost

suing   liability

validity of data   lawsuits

reliability   abundance of data

racisim   causality

enough diverse data sets   wrong diagnosis

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For Insurance Companies, what strategies might we use to avoid the issues?

Using stakeholders!!	Keeping accountable	Consulting an ethics committee
Contextualizing the cases	Follow regulations	Lawyers
Correct reports	Explainable AI	Be ethical!

andreeds.github.io

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For Insurance Companies, what strategies might we use to avoid the issues?

Talk to the business leaders	Diversity	Team diversity
Good communication	accurate ai	Involve the right people in the process
Better understanding of healthcare needs	Education	Education

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For Software Company Leaders, what are potential ethical, governance, and fairness concerns?

false pos vs false neg

privacy

data breaches

corrupted data

data privacy

diversity of data

bias

accuracy

predictive policing

accurate predictions

diverse data

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For Software Company Leaders, what strategies might we use to avoid the issues?

Setting Appropriate factors eligible to get the parole

Advisory board from all stakeholders

AI experts hiring for better accuracy

Framework for Approval from policymakers

Data from different jurisdictions for diverse set of data

Consider type of crime for false pos vs false neg

Representatives from law enforcement, judicial community, and parolees.

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For Users, what are potential ethical, governance, and fairness concerns?

duplicating data

traffic security

false negatives

api - accuracy

security

false postives

inclusivity

accuracy

fairness

privacy

api - uses

underrepresentation

documentry

rapid face change

false positives

nonconsenting face usage

For Users, what strategies might we use to avoid the issues?

Negotiating transparency between API and compnay providing software

Face recognition with face gesture (to ensure user is conscious)

Grouped faces (for trans people, aging people, people in accidents, people who get surgery, etc.)

Iris recognition to check the status of an individual

MFA

Iris recognition to check the status of individuals

Iris recognition

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For Users, what strategies might we use to avoid the issues?

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For Judges and Court System Administrators, what are potential ethical, governance, and fairness concerns?

For Judges and Court System Administrators, what strategies might we use to avoid the issues?

Judges should use it as one source of information rather than the only thing that informs their decision.

Knowing when and when not to use Ai

Incorporate learning about AI into Law School

Understanding the Limitations of the AI system

Judges have the final say

Not using AI

Require representative from all backgrounds

committee of experts to oversee the result. Use AI result blindly. Make decision first and then read AI result

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For Business Leaders, what are potential ethical, governance, and fairness concerns?

For Business Leaders, what strategies might we use to avoid the issues?

More diverse dataset

Secure data

Consultation with ethics experts

Ensure that the data is secure in every stage

Lots of test trials

To the best of your ability, gain a large and updating data set

Screen customers for usage

Educate users of its limitations

Ensuring the company is transparent about how they use the data, keeping data accessible, collaboration with experts, ethical framework with a committee or one person who can ensure fairness

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For Business Leaders, what strategies might we use to avoid the issues?

As a business, prioritise ethics into your business model.

Good lawyers

Being transparent and have the community be liable for using the it with malicious intent

put user authority privileges, so not all employees can access.

Provide explanations

Secure data

Educate our patients about its limitations

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For Parole Candidates, what are potential ethical, governance, and fairness concerns?

people can change

subjectivity

data biases

faulty data

distrust

fairness

correct reasoning

access to all the data

bias

fair treatment

racism

transparency

selection

statistical bias

lack of context

treatment

personality changes

prison-industrial complex

lack of transparency

levelofcrime

wrongful decisions

no special cases

misses important factors

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For Parole Candidates, what strategies might we use to avoid the issues?

Tunnels Jk... maybe an opportunity to overview and explain the data being used to evaluate you

Using representative data

Integration of ai with case worker, not stand alone

Unbiased data, human oversight, continuous learning

More features recorded including interviews and more subjective measures

Transparency

Knowledge

I want access to an explanation for the decision. I want a road to release, next time.

A poster for Rita Hayworth

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For ML Engineers, what are potential ethical, governance, and fairness concerns?

accountability of product

implementation regulation

algorithm effectiveness

personal biases

consequances

seeing data when deving

data source

consent

data availability

how is data collected

privacy

how is data stored

accuracy

correctness

inlcuisivity

influences

misuse of product

data coverage

data leak

bias into code

limitations of dataset

For ML Engineers, what strategies might we use to avoid the issues?

Secure data server, increase accountability

Anonymize data

Data augmentation

Limiting malicious use like with chatgpt

Policies on data transparency

Preventing data hoarding

Make an attempt to have a balanced dataset

Open source route encouraged

Decentralization

For ML Engineers, what strategies might we use to avoid the issues?

Be transparent about workflow

Accountability

Be transparent about data collected

Open data, open code, regulations, advisory boards,

Clear project scope

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