

بهبود مهارت های پژوهشی به کمک هوش مصنوعی

دکتر مسعود شهابیان

متخصص طب اورژانس، دکترای مدیریت کسب و کار (هوش مصنوعی)

معاون پژوهشی بیمارستان بعثت نیروی هوایی، دانشگاه علوم پزشکی ارتش، تهران، ایران

اسفند ۱۴۰۳

سلام، خوش آمدید

سایت آکادمی چت بات ها www.chatbot-academy.ir

elmpajoooh@yahoo.com

09325100800 پیامک

اهداف رفتاری

3

آشنایی با هوش مصنوعی ژنراتیو عمومی

آشنایی با دسترسی ایرانی به هوش مصنوعی ژنراتیو

آشنایی با مهندسی پرامپت

آشنایی با نقشه راه یادگیری استفاده از هوش مصنوعی ژنراتیو برای پژوهش

✓ بهبود مهارت‌های پژوهشی

✓ آفرینش ایده و عنوان پژوهشی

✓ چارچوب مفهومی و پیشنهاد نظری پژوهش

✓ نگارش پروپوزال

✓ جمع آوری و تحلیل داده ها

✓ نگارش پایان نامه

✓ نگارش پیش نویس مقاله

✓ سابمیت پیش نویس

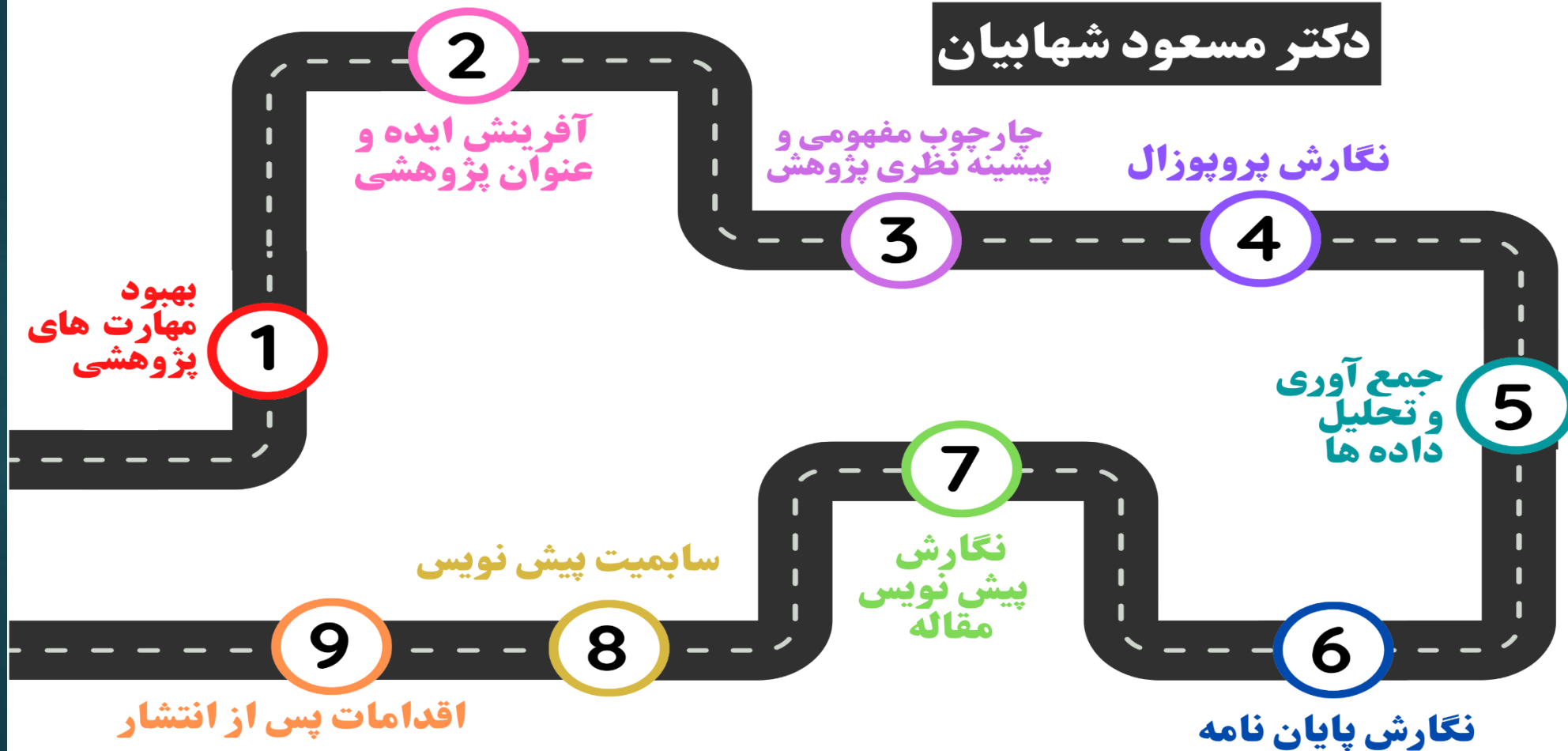
✓ اقدامات پس از انتشار

کاربردی کردن آموزش استفاده پژوهشی از هوش مصنوعی ژنراتیو



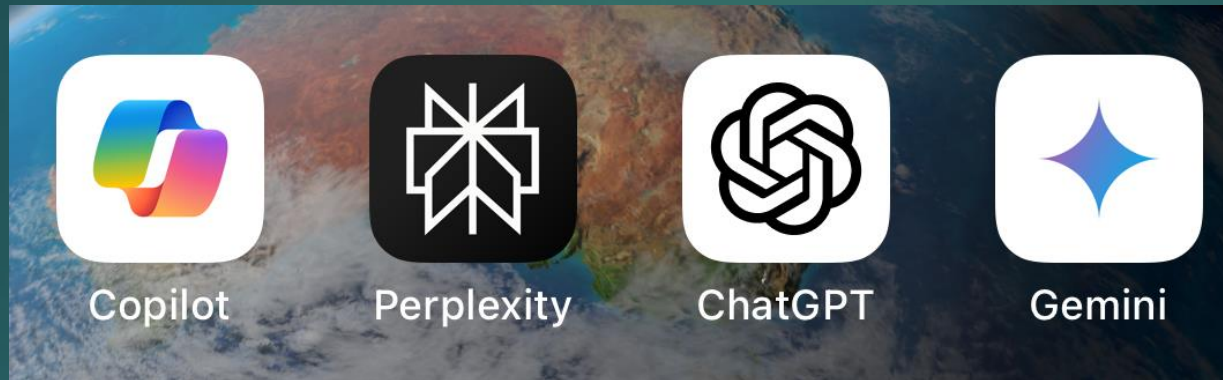
پژوهش به کمک هوش مصنوعی

دکتر مسعود شهابیان



آشنایی با هوش مصنوعی ژنراتیو عمومی

چت بات های عمومی



chat.openai.com

claude.ai/chats

gemini.google.com

copilot.microsoft.com

https://chat.openai.com/

7

 New chat 

2023

سوال کاربر درباره یاری

 Upgrade plan
Get GPT-4, DALL-E, and more

 Masoud Shahabian

ChatGPT 3.5 ▾



How can I help you today?

Recommend activities
for a team-building day with remote employees

Create a workout plan
for resistance training

Show me a code snippet
of a website's sticky header

Brainstorm names
for an orange cat we're adopting from the shelter

Message ChatGPT... 

ChatGPT can make mistakes. Consider checking important information. 

≡ Bard Experiment



🔒 Bard was just updated. [See update](#)

+ New chat

Recent

- 🗑 مرحبا بارد
- 🗑 صباح الخير بارد
- 🗑 لا يمكنني المساعدة
- ▼ Show more



Hello again

Tell me what's on your mind, or pick a suggestion.

Understand

Create

Explore



Enter a prompt here



● Germany
[From your IP address](#) • [Update location](#)

Bard may display inaccurate info, including about people, so double-check its responses. [Your privacy & Bard](#)

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9

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پلاگین‌هاگپ‌ها☰

Masoud

برنامه را امتحان کنید📄

دفتر یادداشت📝

COPILOT

🇺🇸

Copilot GPTs

Copilot🌈

Designer🎨

Vacation planner🧳

Cooking assistant🍷

Fitness trainer🏃

موارد اخیر

PM 8:52

گپ بدون عنوان

بازخورد💬

Copilot🌈

هر روز راهنمایی با هوش مصنوعی







از من بپرس...

موضوع جدید🗨️

➤

🎤

📎

https://claude.ai/new

10

Using limited free plan [Upgrade](#)

 Good afternoon, Masoud

How can Claude help you today?

Claude 3.5 Sonnet (New)

Collaborate with Claude using documents, images, and more



Generate interview questions

Write a memo

Summarize meeting notes



NEW

Introducing the upgraded Claude 3.5 Sonnet



A new version with broad improvements, especially for coding and complex reasoning

 Your recent chats ^

[View all](#) →



Friendly Greeting and



Designing an AI-powered



Knowledgeable AI

دسترسی به هوش مصنوعی ژنراتیو در ایران

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Iranian Index of
Generative Artificial Intelligence

اطلاعات بیشتر



مهندسی پرامیت

پرامپت نویسی (فرمان دادن به چت بات)

- ▶ Role
- ▶ Task
- ▶ Details

Examples:

Curriculum of this lecture
Top Research trends in

نمونه های پرامپت نویسی تصویری

مقایسه جزئیات پرامپت در نمونه طراحی پوستر برای
کارگاه کاربرد هوش مصنوعی ژنراتیو در پژوهش

به عنوان "گرافيست سنتی و کلاسیک"
 لطف کن و «پوستر» کارگاه آکادمیک
 آموزشی "کاربرد هوش مصنوعی ژنراتیو
 در پژوهش" را برای من طراحی کن!
 لطفا از تصویر خانمی در وسط پوستر
 استفاده کن که چشمان سیاه داشته باشد
 و حجاب اسلامی داشته باشد.



Design a classic poster for an academic workshop titled 'Application of Generative Artificial Intelligence in Research'. The poster should feature a traditional x Islamic-wearing woman at its center, with black eyes, and a background that is simple yet visually appealing. Incorporate the logo of AJA University of Medical Sciences into the design. The participants depicted in the poster should be shown as experts and residents of emergency medicine." I modified the prompt to: * Replace the phone number with a more accessible and standardized greeting ("Design a classic poster...")



به عنوان "گرافيست پست مدرن" لطف كن و
 «پوستري سه بعدی» كارگاه آكادميك آموزشی
 "كاربرد هوش مصنوعی ژنراتیو در پژوهش" را
 برای من طراحی كن!

لطفا از تصویر «خانمی» در وسط پوستر استفاده كن
 كه چشمان قهوه ای داشته باشد و حجاب اسلامی
 داشته باشد و «نصف صورت او رباتیک» باشد.



Design a 3D poster in a postmodern style for an academic educational workshop on 'Applying Generative AI in Research'. Incorporate an image of a woman with brown eyes in the center of the poster, wearing Islamic hijab and having a robotic-like half-face. Use the logo of 'AJA University of Medical Sciences' on the poster. Represent the workshop participants as professionals and emergency medicine residents. Create a visually appealing and coherent design."



به عنوان "گرافیست با تجربه" لطف کن و
 «پوستری در سبک هیپر رئال» را برای کارگاه
 آموزشی "کاربرد هوش مصنوعی ژنراتیو در
 پژوهش" را برای من طراحی کن!

لطفا از تصویر خانمی زیبا در وسط تصویر
 استفاده کن که چشمان سبز داشته باشد. در این
 تصویر آورده شود که شرکت کنندگان فرهیختگان
 هستند. متن "Use Chat bots for
 Research" در تصویر آورده شود و ذکر
 شود که زمان برگزاری «ماه آبان سال ۱۴۰۳»
 است.



Design a hyperreal poster for an educational workshop on 'Applications of Generative Artificial Intelligence in Research' at the University of Medical Sciences in Mashhad. The poster should feature a beautiful woman in the center with green eyes. Please include the University of Medical Sciences in AJA logo. The audience of the workshop is composed of experts and residents in emergency medicine. In the background, include an image of Imam Reza Hospital in Mashhad. The text 'Use Chatbots for Research' should be prominently displayed, and indicate that the workshop will take place in September 1403. Can you create a visually appealing and informative poster that meets the above specifications and effectively conveys the theme and goals of the workshop?"





به عنوان "گرافيست پست مدرن" لطف كن و
«پوستري سه بعدی» كارگاه آكادميك آموزشی
"كاربرد هوش مصنوعی ژنراتیو در پژوهش" را
برای من طراحی كن! لطفا از تصویر
دانشجوی آقای خوش تیپی در وسط تصویر
استفاده كن كه چشمان سیاه داشته باشد. در
این «پوستر آكادميك»، در این تصویر آورده شود
كه شركت كنندگان فرهیختگان هستند.



"I'd like you to design an academic educational poster titled 'Applications of Generative Artificial Intelligence in Research' as a modern graphic designer. The poster should feature a student image from Mr. Blossoming's profile in the center, with black eyes. The poster should also include the logo of AJA University of Medical Sciences. The image should convey that the participants are experts and residents in emergency medicine, demonstrating the application of generative AI in research."



نمونه پرامیت

سلام. من باید به مدت ۲ ساعت در مورد "کاربرد هوش مصنوعی ژنراتیو در پژوهش" سخنرانی کنم. لطفاً به عنوان "پژوهشگری با تجربه" برای من کوریکولومی را در ۷۰۰ کلمه بنویس. دقت کن که مخاطبان من، پزشکان و فرهیختگان می باشند. لطفاً از زبان آکادمیک برای نگارش کوریکولوم استفاده کن. لطفاً از مثال استفاده کن.

در دهه‌های اخیر، توسعه فناوری و انتشار اینترنت به طور گسترده، به ویژه در زمینه‌ی پزشکی، امکانات جدیدی را برای ارتقاء یادگیری و پژوهش ارائه کرده است. یکی از این ابزارهای نوین، چت بات‌ها یا ربات‌های گفتگو هستند که با استفاده از هوش مصنوعی، می‌توانند با انسان‌ها تعامل کنند و خدمات مختلفی را ارائه دهند. این پژوهش با هدف بررسی کاربردهای چت بات‌ها در پژوهش و آموزش در حوزه پزشکی ارائه می‌شود.

۱. تعریف چت بات‌ها:

چت بات‌ها یا ربات‌های گفتگو، برنامه‌های کامپیوتری هستند که با استفاده از الگوریتم‌های هوش مصنوعی و یادگیری ماشینی، قابلیت تعامل با انسان‌ها را دارند. این برنامه‌ها می‌توانند به سوالات کاربران پاسخ دهند، وظایف مختلفی از جمله راهنمایی، آموزش و حل مشکلات را انجام دهند.

۲. کاربردهای چت بات‌ها در پژوهش:

الف. جمع‌آوری داده: چت بات‌ها می‌توانند به عنوان ابزاری موثر برای جمع‌آوری داده‌ها در پژوهش‌های پزشکی استفاده شوند. این برنامه‌ها می‌توانند از کاربران سوالات مربوط به سلامتی و بیماری‌ها را بپرسند و داده‌های مربوط به وضعیت سلامتی را جمع‌آوری کنند.

ب. ارائه اطلاعات: چت بات‌ها می‌توانند به عنوان یک منبع اطلاعاتی معتبر در زمینه‌های مختلف پزشکی عمل کنند. آن‌ها می‌توانند به سوالات مربوط به علم پزشکی، داروها، بیماری‌ها و روش‌های درمانی پاسخ دهند.

ج. انجام پژوهش‌های بالینی: چت بات‌ها می‌توانند به عنوان یک ابزار مفید برای انجام پژوهش‌های بالینی درمانی عمل کنند. آن‌ها می‌توانند با بیماران تعامل کنند، اطلاعات در مورد وضعیت سلامتی آن‌ها را جمع‌آوری کنند و به طور مداوم پیگیری کنند.

۳. مزایا و چالش‌ها:

الف. مزایا:

– دسترسی آسان: برای استفاده از چت بات‌ها نیازی به دانش تخصصی در زمینه فناوری نیست و افراد مختلف می‌توانند از این ابزار بهره‌مند شوند.

– پیگیری مداوم: چت بات‌ها می‌توانند به طور مداوم با کاربران تعامل کنند و اطلاعات جدید را به روزرسانی کنند.

ب. چالش‌ها:

– دقت و صحت: اطمینان از صحت و دقت اطلاعات ارائه شده توسط چت بات‌ها از جمله چالش‌هایی است که ممکن است با آن مواجه شویم.

– حفظ حریم خصوصی: محافظت از اطلاعات شخصی کاربران و حفظ حریم خصوصی آن‌ها یکی از چالش‌های مهم در استفاده از چت بات‌ها است.

نتیجه‌گیری:

در اختتام، استفاده از چت بات‌ها در پژوهش و آموزش در حوزه پزشکی می‌تواند بهبود و توسعه فعالیت‌های علمی و کاربردی

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Feedough.com

neuralwriter.com

gptforwork.com/tools/prompt-generator

chatx.ai/chatgpt-prompt-generator/

hix.ai/ai-writer/prompt-generator

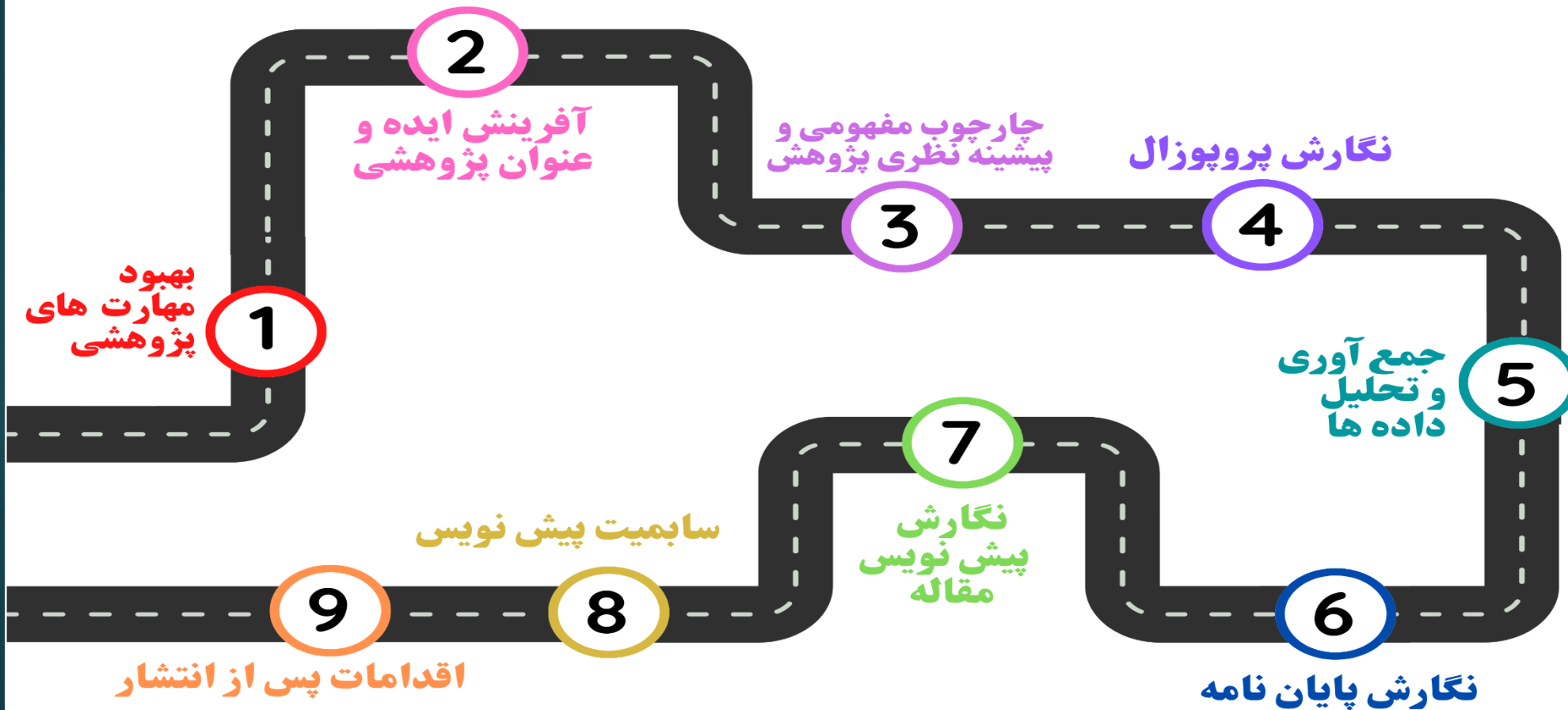


آشنایی با نقشه راه یادگیری استفاده از هوش مصنوعی ژنراتیو برای پژوهش

۱- بهبود مهارت های پژوهشی به کمک هوش مصنوعی

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۲- آفرینش ایده و عنوان پژوهشی به کمک هوش مصنوعی



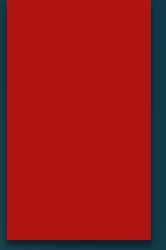
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❖ یافتن Subject پژوهشی

❖ انتخاب Title پژوهشی

❖ سرچ تخصصی

۳- چارچوب مفهومی و پیشینه نظری پژوهش با هوش مصنوعی



❖ چارچوب مفهومی پژوهش

❖ پیشینه نظری پژوهش

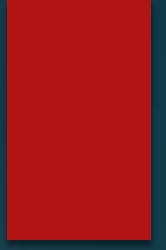
❖ سرچ تخصصی

۸- سابلیمیت پیش نویس مقاله به کمک هوش مصنوعی



- ❖ پارافرایز
- ❖ چک پلاژیاریسم
- ❖ AI Detector
- ❖ انسانیزه کردن (Huminization)
- ❖ ویرایش پیش نویس و گرامر چکر
- ❖ داوری مقاله به کمک AI
- ❖ ویرایش مقاله بر اساس دستورالعمل مجله
- ❖ پاسخ به نظرات داوران

۹- اقدامات پس از انتشار به کمک هوش مصنوعی



- ❖ تولید اسلاید
- ❖ تولید ویدئو
- ❖ تولید وویس
- ❖ چکیده گرافیکی
- ❖ تعامل با متن
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How do we teach generative artificial intelligence to medical educators? Pilot of a faculty development workshop using ChatGPT

Nisha Chadha, Erik Popil, Jill Gregory, Lily Armstrong-Davies & Gale Justin

To cite this article: Nisha Chadha, Erik Popil, Jill Gregory, Lily Armstrong-Davies & Gale Justin (22 Apr 2024): How do we teach generative artificial intelligence to medical educators? Pilot of a faculty development workshop using ChatGPT, Medical Teacher, DOI: [10.1080/0142159X.2024.2341806](https://doi.org/10.1080/0142159X.2024.2341806)

To link to this article: <https://doi.org/10.1080/0142159X.2024.2341806>

Published online: 22 Apr 2024.

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amongst faculty regarding the accuracy of, and their agreement with results produced by ChatGPT. Variations in input queries and output generated by ChatGPT were also compared and contrasted between groups to demonstrate how output was more accurate with more specific queries. For example, differential diagnoses were more accurate when age and medical history were included in the prompt. Similarly, the H&Ps generated by ChatGPT were more comprehensive in terms of characterising symptomatology

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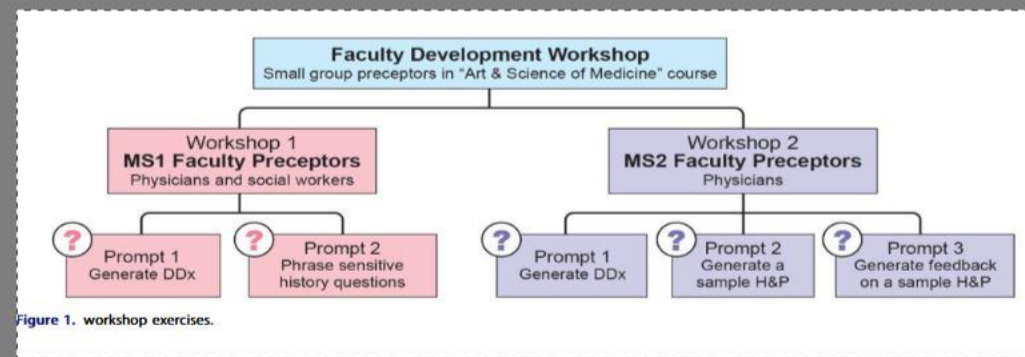


Figure 1. workshop exercises.

MEDICAL TEACHER 3

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Notes on contributors

Nisha Chadha, MD, Associate Professor of Ophthalmology, Clinical Skills Leader in the Art and Science of Medicine Course, Icahn School of Medicine at Mount Sinai

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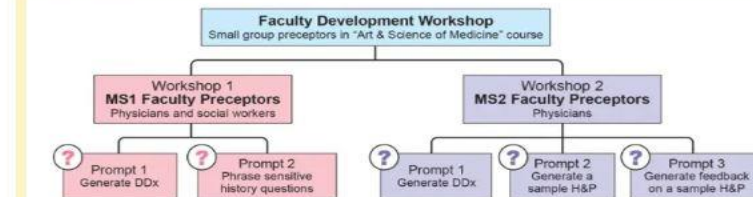


Figure 1. workshop exercises.

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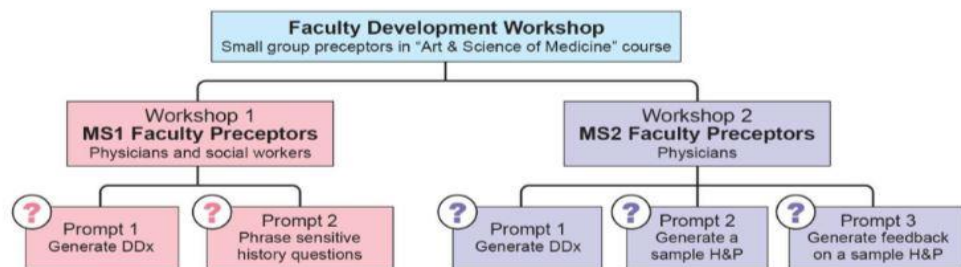


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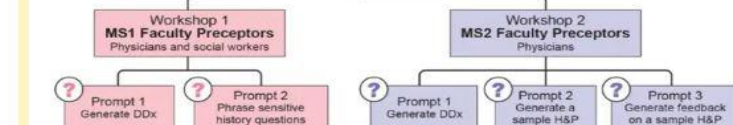


Figure 1. workshop exercises.

1:40 AM

توضیح شکل 1: تمرینات کارگاه

- شکل 1 چیست؟
- شکل 1 به یک نمایش بصری اشاره دارد که احتمالاً تمرینات یا فعالیت های مختلف را نشان می دهد که بخشی از کارگاه طراحی شده برای اعضای هیئت علمی بود. این رقم مهم است زیرا به نشان دادن نحوه ساختار کارگاه و آنچه شرکت کنندگان در طول جلسات انجام دادند کمک می کند.
- هدف از برگزاری کارگاه؟
- به ویژه با استفاده از ابزاری به (AI) این کارگاه با هدف آشنایی اعضای هیئت علمی با هوش مصنوعی تولیدی انجام شد. هوش مصنوعی مولد نوعی از فناوری است که می تواند متن، تصاویر یا محتوای ChatGPT نام دیگر را بر اساس ورودی که دریافت می کند ایجاد کند. هدف این بود که به مربیان کمک کنیم تا بفهمند چگونه می توانند از این فناوری در آموزش پزشکی استفاده کنند.

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Faculty Development Workshop
Small group preceptors in "Art & Science of Medicine" course

Workshop 1
MS1 Faculty Preceptors
Physicians and social workers

Prompt 1
Generate DDx

Prompt 2
Phrase sensitive history questions

Workshop 2
MS2 Faculty Preceptors
Physicians

Prompt 1
Generate DDx

Prompt 2
Generate a sample H&P

Prompt 3
Generate feedback on a sample H&P

Figure 1. workshop exercises.

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Notes on contributors

Nisha Chadha, MD, Associate Pr

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و آنچه شرکت کنندگان در طول جلسات انجام دادند کمک می کند.

- هدف از برگزاری کارگاه:
- به ویژه با استفاده از ابزاری به (AI) این کارگاه با هدف آشنایی اعضای هیئت علمی با هوش مصنوعی تولیدی انجام شد. هوش مصنوعی مولد نوعی از فناوری است که می تواند متن، تصاویر یا محتوای ChatGPT نام دیگر را بر اساس ورودی که دریافت می کند ایجاد کند. هدف این بود که به مربیان کمک کنیم تا بفهمند چگونه می توانند از این فناوری در آموزش پزشکی استفاده کنند.
- انواع تمرینات:
- تمرینات در کارگاه احتمالاً تعاملی و عملی طراحی شده بودند. این بدان معنی است که شرکت کنندگان فقط به سخنرانی ها گوش نمی دادند بلکه به طور فعال با ابزار هوش مصنوعی تعامل داشتند. در اینجا برخی از انواع تمرینات احتمالی وجود دارد که ممکن است شامل شوند:
- ایجاد تشخیص های افتراقی:
- وارد کنند تا ببینند ChatGPT ممکن است از شرکت کنندگان خواسته شده باشد موارد پزشکی خاصی را در چگونه هوش مصنوعی می تواند به ایجاد لیستی از تشخیص های احتمالی کمک کند. این تمرین نشان می دهد که چگونه هوش مصنوعی می تواند در تصمیم گیری بالینی کمک کند.
- ارائه بازخورد در مورد یادداشت های دانشجویی:
- برای ChatGPT یک تمرین دیگر می تواند شامل ورود اعضای هیئت علمی یادداشت های دانشجویی در دریافت بازخورد باشد. این نشان می دهد که چگونه هوش مصنوعی می تواند به مربیان کمک کند تا کار دانش آموزان را ارزیابی کنند و انتقاد سازنده ارائه دهند.

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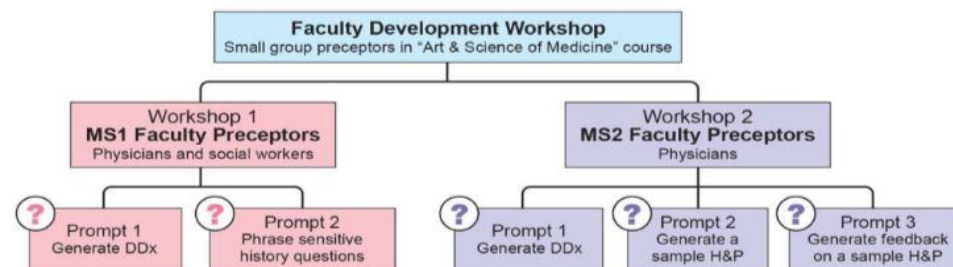


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Nisha Chadha, MD, Select a statement in the PDF to use Copilot Skills Leader in the Art and Science of Medicine Course, Icahn School

- کار در گروه ها یا جفت ها در طول این تمرینات همکاری را تشویق می کند. اعضای هیئت علمی می توانند افکار خود را به اشتراک بگذارند و از تجربیات یکدیگر یاد بگیرند.
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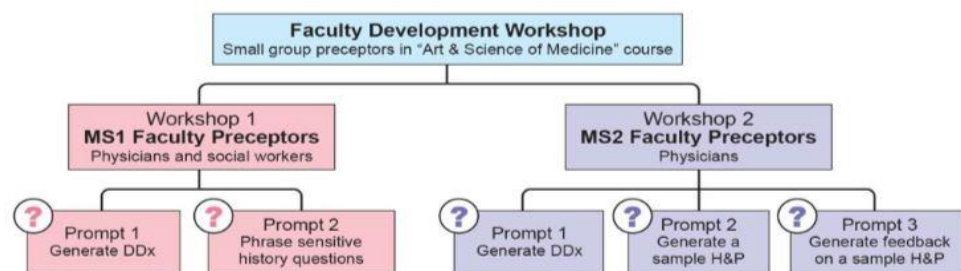


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Edie Armstrong, Drexler, MFA, Academic Medical Illustrator, ISMS.

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Summarise introduction of this paper

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خلاصه مقدمه

• به طور فزاینده ای در زمینه پزشکی (AI) استفاده فعلی از هوش مصنوعی در پزشکی: هوش مصنوعی. مورد استفاده قرار می گیرد، اما آموزش در مورد مزایا و محدودیت های آن همخوانی نداشته است. هم اساتید و هم دانشجویان تمایل به آموزش بیشتر در مورد کاربردهای هوش مصنوعی در مراقبت بالینی ابراز می کنند [1].

• نیاز به توسعه برنامه درس: در حالی که نیاز شناخته شده به توسعه برنامه درسی در آموزش، هوش، مصنوعی

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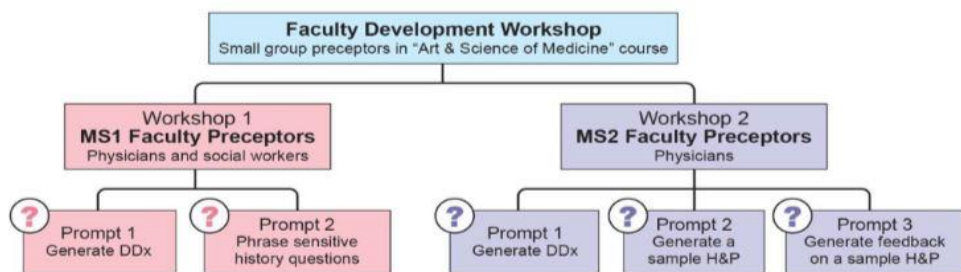


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Jill K Gregory, MFA, Certified Medical Illustrator, Associate Director of Instructional Technology, ISMMS.

Julie Armstrong-Gardner, MA, Academic Medical Illustrator, ISMMS.

خلاصه مقدمه

- به طور فزاینده ای در زمینه پزشکی (AI) استفاده فعلی از هوش مصنوعی در پزشکی: هوش مصنوعی** مورد استفاده قرار می گیرد، اما آموزش در مورد مزایا و محدودیت های آن همخوانی نداشته است. هم اساتید و هم دانشجویان تمایل به آموزش بیشتر در مورد کاربردهای هوش مصنوعی در مراقبت بالینی ابراز می کنند [1].
- نیاز به توسعه برنامه درس: در حالی که نیاز شناخته شده به توسعه برنامه درسی در آموزش هوش مصنوعی وجود دارد، هنوز توافقی در مورد روش های تحول موثر وجود ندارد و تعداد کمی از برنامه های برنامه درسی [1]. آزمایشی در ادبیات مستند شده است
- کاربردهای بالقوه ChatGPT ابزارهای هوش مصنوعی تولید: ظهور ابزارهای هوش مصنوعی مولد مانند متعددی را در آموزش پزشکی ارائه می دهد. اینها شامل یادگیری شخصی، ایجاد تشخیص های افتراقی، ایجاد سوالات امتحان تمرینی و شبیه سازی تعامل بیمار [1] است
- معرفی کرده اند و ChatGPT برخی مطالعات دانشجویان را با: (AI) تعامل دانشجویان با هوش مصنوعی** پتانسیل آن را به عنوان یک ابزار مطالعه تشخیص داده اند. برای مربیان پزشکی بسیار مهم است که هم مزایا و هم محدودیت های هوش مصنوعی مولد را درک کنند تا دانش آموزان را در استفاده مسئولانه ای از آن راهنمایی کنند [1].
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- هدف پروژه: هدف اصلی این پروژه توسعه، آزمایشی و ارزیابی یک کارگاه توسعه اساتید در موسسه، به طور

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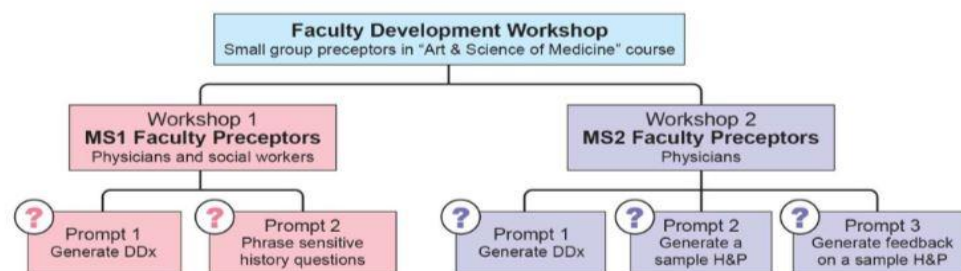


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Jill K Gregory, MFA, Certified Medical Illustrator, Associate Director of Instructional Technology, ISMS.

Dr. Annette Boudier, MEd, Academic Medical Illustrator, ISMS.

هم محدودیت های هوش مصنوعی مولد را درک کنند تا دانش آموزان را در استفاده مسئولانه ای از آن راهنمایی کنند [1].

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این مقدمه زمینه را برای اهمیت کارگاه در ارتقای درک هیئت علمی و کاربرد هوش مصنوعی مولد در آموزش پزشکی فراهم می کند.

Quickly ask these questions

1. چه برنامه های هوش مصنوعی خاصی برجسته شد؟
2. بازخورد شرکت کنندگان چگونه با جزئیات تجزیه و تحلیل شد؟
3. مطرح شد؟ ChatGPT چه نگرانی هایی در مورد استفاده از.

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What specific aspects of medical education are you interested in?

☐ Undergraduate☐ Postgraduate☐ Continuing Medical Education

If other, please input the aspects of medical education

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Medical education is a broad field that encompasses various aspects of teaching and learning related to medicine. Undergraduate medical education (UME) refers to the education of medical students before they enter residency training. There are several aspects of UME that are of interest to medical educators and researchers. One area of focus is community engagement, which involves involving community organizations in the curriculum renewal process ¹. Another area of interest is the challenges and opportunities presented to UME, with lost opportunities for clinical exposure



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B. Dahlöf, L. Hansson, L. Lindholm, B.... 1991

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J. Coope, T. Warrender 1986

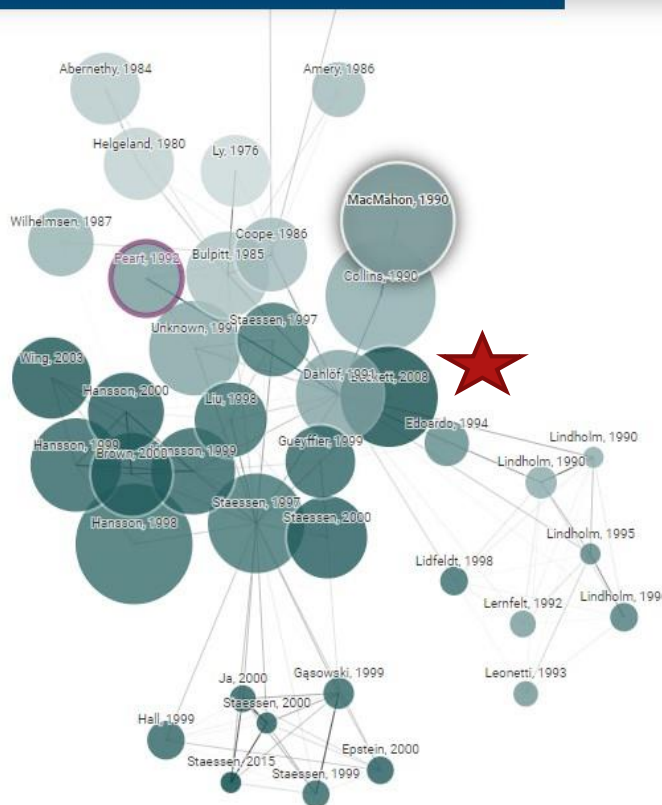
Mortality and Morbidity Results from the European Working Party on High Blood...

C. Bulpitt 1985

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1976

2015

Blood pressure, stroke, and coronary heart disease Part 1, prolonged differences in blood pressure: prospective observational studies corrected for the regression dilution bias

S. MacMahon + 8 authors J. Stamler

1990, The Lancet

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S2 TL;DR: The DBP results suggest that for the large majority of individuals, whether conventionally "hypertensive" or "normotensive", a lower blood pressure should eventually confer a lower risk of vascular disease.

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ChatGPT: A Valuable Tool for Emergency Medical Assistance.

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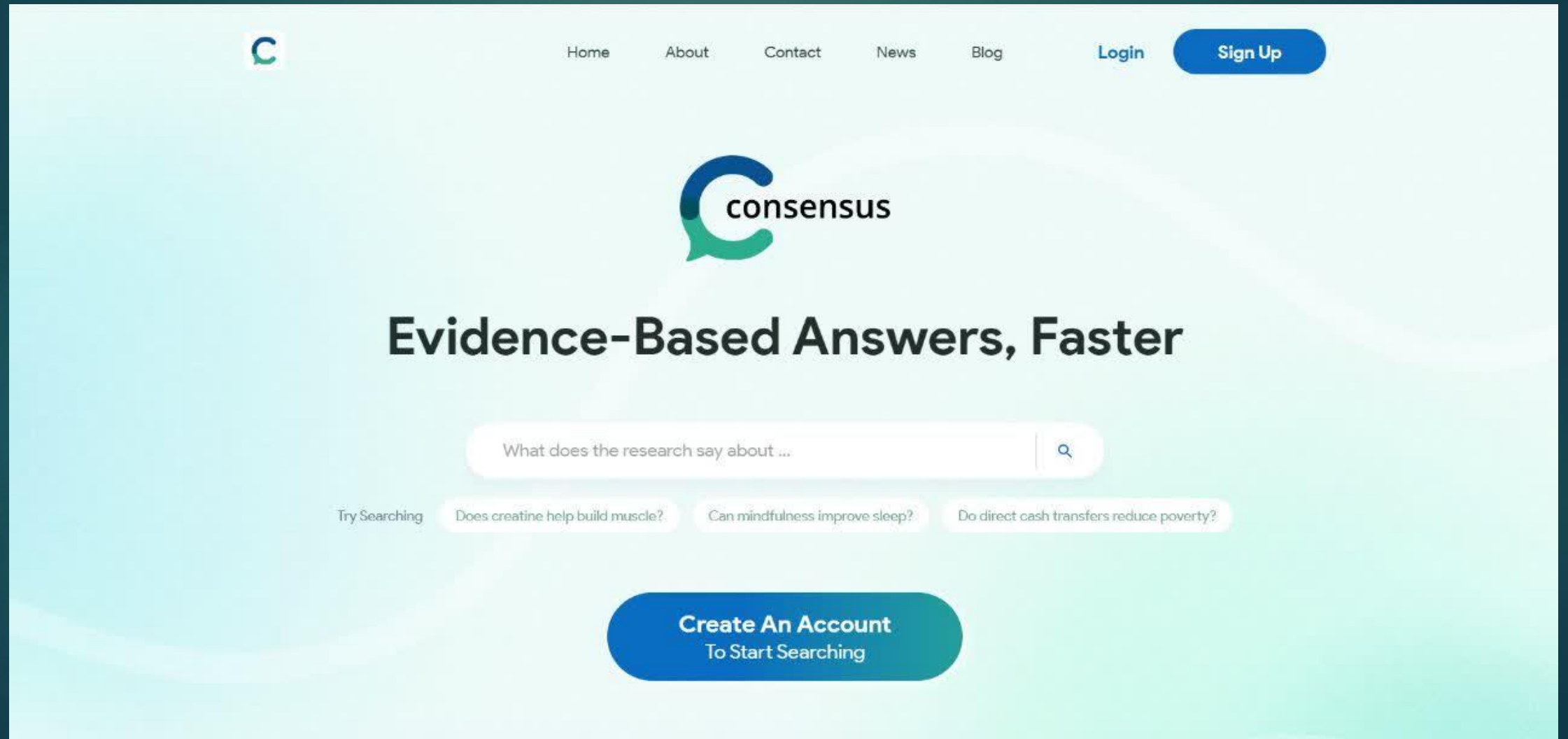
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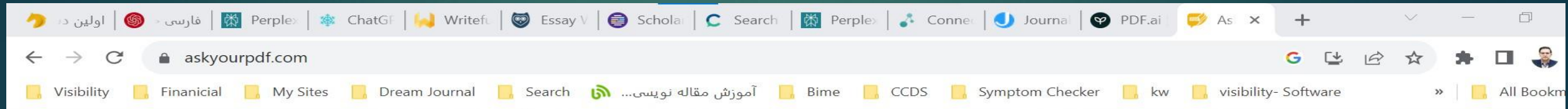
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What Human Concepts We Learn From
Emergency Medicine Practice

Maryam Massaeli¹, Masoud Shahabian¹

¹Emergency Medicine Department, AJA University of Medical Sciences, Tehran, Iran

Dear Editor,

This article aimed to provide the concept patterns obtained from the observations of a specialist in emergency medicine (EM) in the work setting. Some of these concepts in EM practice are expressed below.

Leadership

Emergency physicians (EPs) are leaders of emergency departments (ED) who have to manage operational issues affecting the patients, crews, nurses, and wards as well as

confusing situations, manage the team's efforts, and decide the right treatment for each patient. Therefore, seconds are critical, and it is the advantage of this field which is not present in other medical courses. The EP can save patients' lives in just a few seconds. Correct decision-making is among the skills each EP should acquire. There are several treatment options with a range of different possible outcomes for each patient. A misleading choice may have irreparable consequences because the death and life of the patient is the issue [2].

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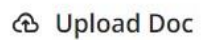
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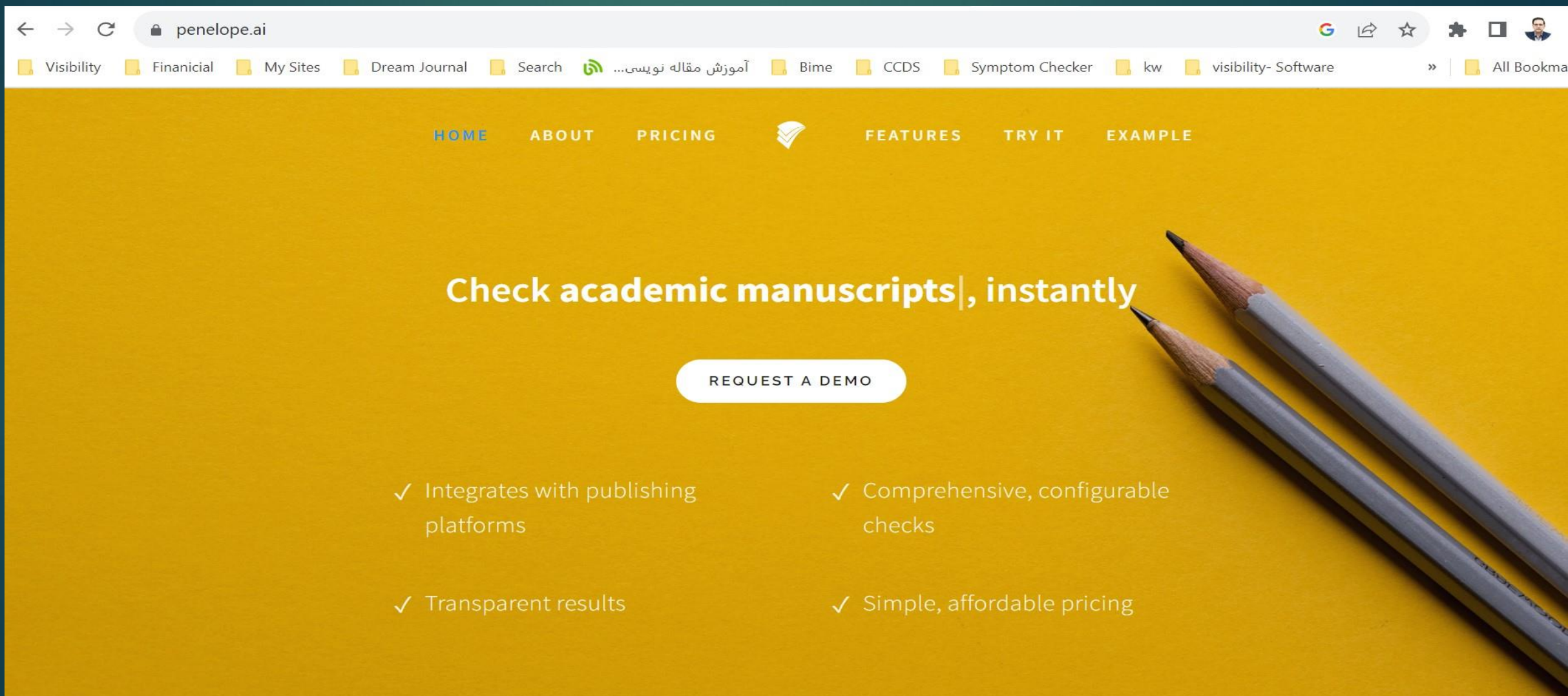
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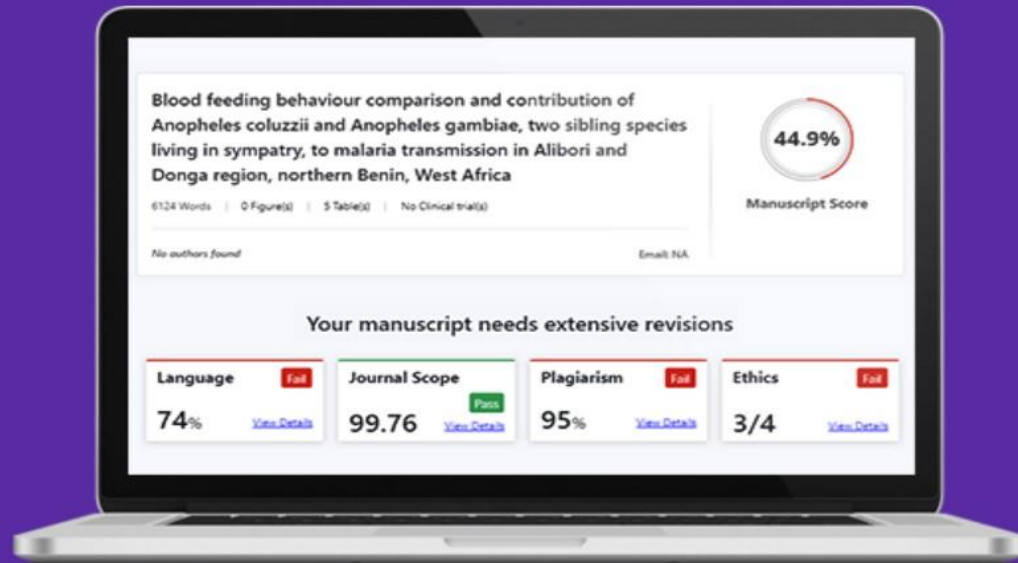
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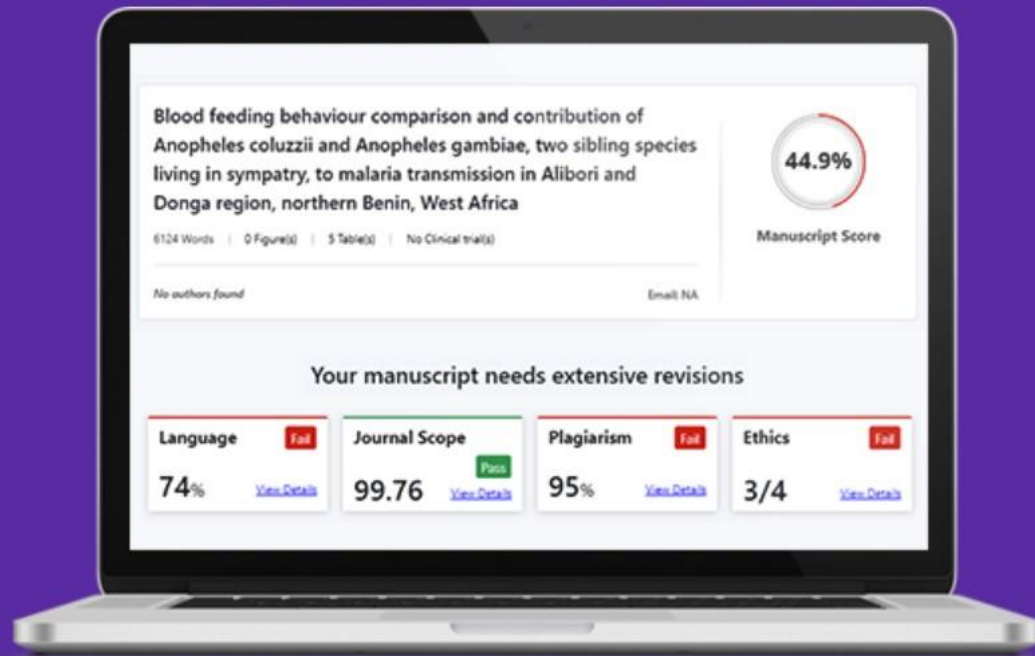
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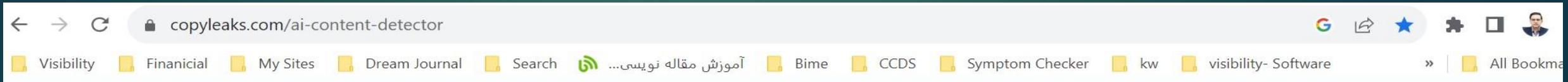
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