Article: Gen Al's impact on healthcare: Cutting-edge applications (and their challenges) | VentureBeat

SUMMARY: All has rapidly advanced in healthcare, offering capabilities like tumor diagnoses and streamlining administrative tasks, but faces challenges such as accuracy, data privacy, and integration issues.

KEY POINTS:

Al Applications in Healthcare:

- Can aid in tumor diagnoses, offer fitness advice, and analyze images like MRIs and X-rays.
- Al can automate tasks like <u>appointment summaries</u>, scheduling, billing, and <u>patient management</u>, improving operational efficiency.
- Predictive analytics can assist in resource allocation and streamline processes in healthcare settings.
- All algorithms can enhance diagnostics by detecting conditions like cancer and heart disease more accurately than traditional methods.
- Personalized medicine and remote patient monitoring are supported by AI through data analysis and wearables.

• Al in Medical Workflow:

- Al can optimize operations in hospitals, predict patient deterioration, and tailor post-discharge care plans.
- Infrastructure optimization using predictive analytics can help in resource management during unforeseen events like weather changes.

• AI in Drug Discovery and Clinical Trials:

• All aids in <u>drug discovery</u> by predicting <u>drug interactions</u> and assisting in clinical trial participant prescreening.

Challenges and Concerns:

- <u>Data privacy</u>, security, and regulatory compliance are significant concerns in healthcare AI applications.
- Integrating AI with legacy systems and ensuring staff and patient trust in AI's reliability are challenges.
- Lack of transparency in AI decision-making processes and potential errors pose issues in treatment and care provision.

Human Involvement with AI:

- Maintaining human interactions in healthcare is crucial despite Al advancements.
- All currently serves as a tool for second opinions and recommendations, rather than making autonomous decisions.
- "Augmented intelligence" combining human expertise with AI capabilities is seen as beneficial for healthcare.