Parminder Bhatia

Chief AI Officer of GE HealthCare

Seattle, Washington, United States Contact Info

14K followers 500+ connections

See your mutual connections

GE HealthCare

Georgia Institute of Technology

About

As Chief AI officer at GE HealthCare (awarded top 10 CAIO in 2023 https://aimagazine.com/ai-strategy/top-10-chief-ai-officers), leading the integration of artificial intelligence into the development, manufacturing, and operation of medical devices. Additionally, responsible for overseeing the strategic implementation of artificial intelligence technologies to improve patient care, operational efficiency, and outcomes. Parry is responsible for leading the AI org while building a new machine learning capability across the organization. This will ensure GE HealthCare will get the best patient outcomes from the digital solutions we build and bring to market, through leveraging machine learning and large language models.

Parry joined GE HealthCare from Amazon, where he served as the head of machine learning for large language models and foundation models at AWS AI Labs and focused on developing low-code and no-code applications by leading the science and development of Amazon CodeWhisper and Bedrock.. Prior to this, he was the head of machine learning at AWS Health AI.

https://scholar.google.com/citations?user=8F3svqgAAAAJ&hl=en

Articles by Parminder

- Transforming Clinical Workflows: AI Unveils Novel Patient Insights
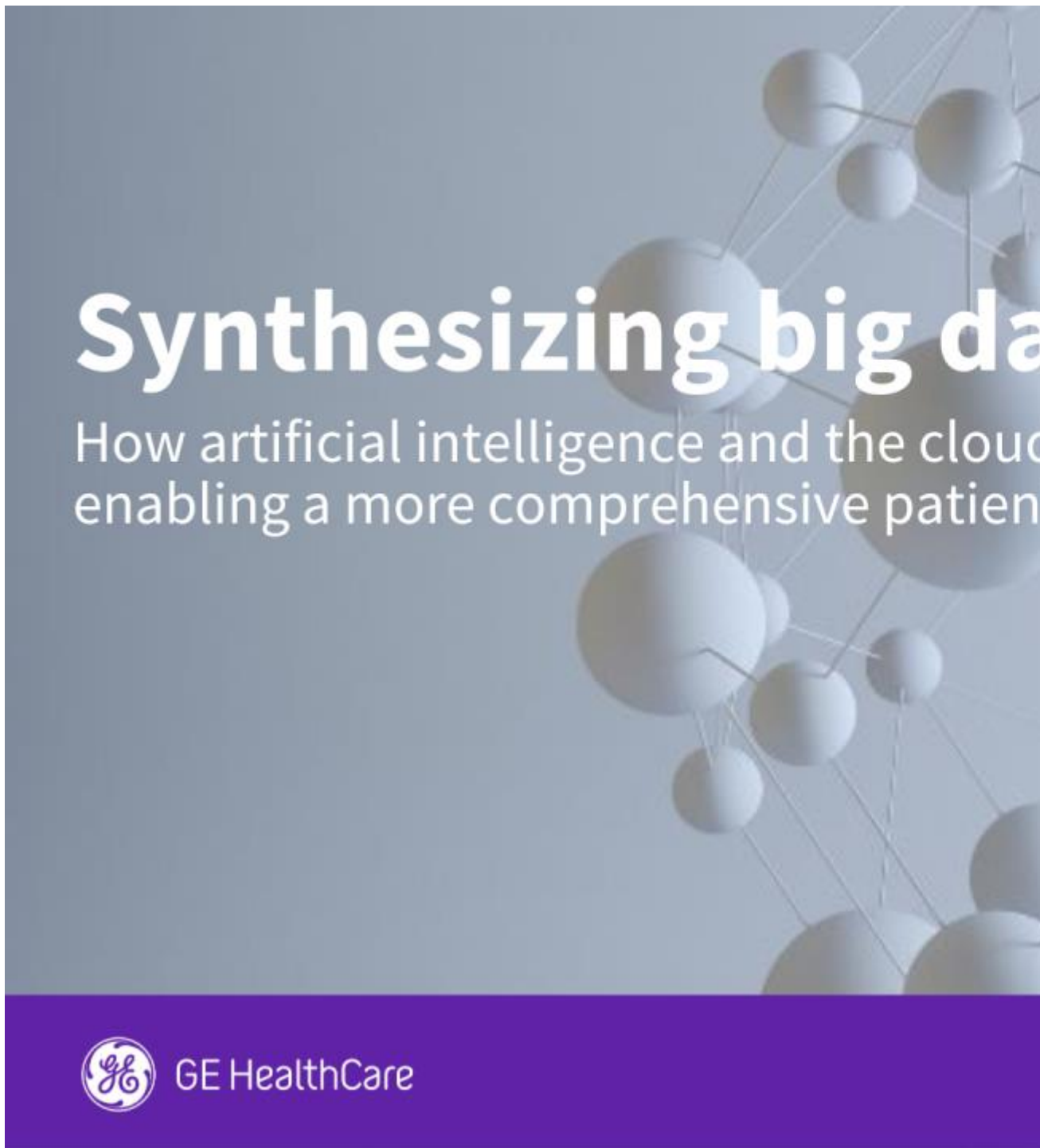
Transforming Clinical Workflows: AI Unveils Novel Patient Insights

By Parminder Bhatia

Feb 21, 2024

Envisioning the future of care leveraging personalized KGs and Large Language Models

By Parminder Bhatia

Jan 17, 2024

Contributions

- **How do you make sure your AI and machine learning systems don't break?**

AI is a broad term in the technology space, and although exciting, comes with its own baggage and concerns. ☐ It's important to directly address skepticism of AI to utilize its power to advance our medical technology. The time spent training and learning new systems that lack intuitiveness can be overwhelming to healthcare workers that already face a lot of pressure and time constraints. Responsible AI is key component here covering explainability, data privacy, bias minimization, rigorous validation, and the upholding of ethical principles, calling for a combination of measures to ensure safe and fair use. Successful integration of AI should only alleviate these pressures, not add to them.
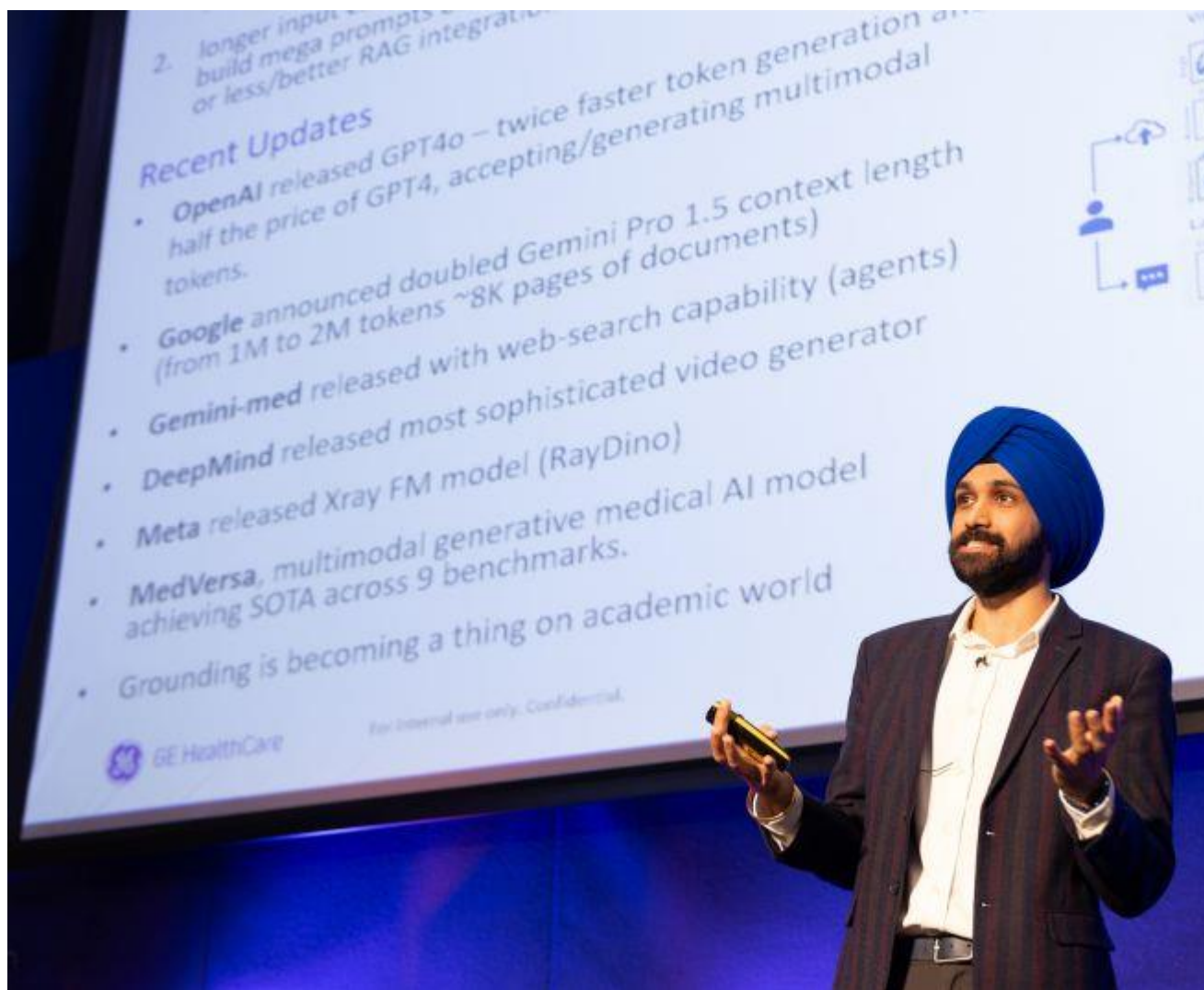
Parminder Bhatia contributed 9 months ago   [Upvote]

Activity

Follow

- Last week at the Generative AI Summit in London, I had the honor of giving the keynote, speaking about how Foundation models have the potential to…

Last week at the Generative AI Summit in London, I had the honor of giving the keynote, speaking about how Foundation models have the potential to...

Shared by [Parminder Bhatia](#)

- Our work "IllusionVQA" has been highlighted in a recent Scientific American article, "Optical Illusions Can Fool AI Chatbots Too"…

Our work "IllusionVQA" has been highlighted in a recent Scientific American article, "Optical Illusions Can Fool AI Chatbots Too"...

Liked by [Parminder Bhatia](#)

- A big day for Atropos Health yesterday. As the Gen AI hype bubble in Healthcare begins to shift, the focus is going to be on Quality, Accuracy, and…

A big day for Atropos Health yesterday. As the Gen AI hype bubble in Healthcare begins to shift, the focus is going to be on Quality, Accuracy, and…

Liked by [Parminder Bhatia](#)

[Join now to see all activity](#)

Experience

-

Chief AI Officer

GE HealthCare

Apr 2023 - Present 1 year 2 months

Seattle, Washington, United States

As Chief AI officer at GE HealthCare (awarded top 10 CAIO in 2023 https://aimagazine.com/ai-strategy/top-10-chief-ai-officers), leading the cross company AI organization with focus on foundational models and generative ai. Currently, leading the integration of artificial intelligence into the development, manufacturing, and operation of medical devices. Additionally, responsible for overseeing the strategic implementation of artificial intelligence technologies to improve patient care…Show more

●

Amazon

6 years 1 month

- ○ **Head of Applied Science - Generative AI**

  Sep 2022 - Apr 2023 8 months

  Seattle, Washington

  Head of Science for Generative AI leading Amazon CodeWhisperer and Bedrock science and innovations.

- ○ **Science Manager**

  Jan 2019 - Aug 2022 3 years 8 months

  Seattle, Washington, United States

  Leading a team of 25+ applied research scientists and science managers, working closely with our product and engineering partners, to build novel AI-enabled cloud

services driven by large scale machine learning and natural language understanding research:
Amazon CodeWhisperer: Build apps faster with ML-powered coding companion
Amazon Comprehend Medical
Amazon Health AI

- o **Senior ML Scientist and Lead Scientist at Amazon Comprehend Medical**

  Oct 2018 - Jan 2019 4 months

  Greater Seattle Area

  Lead Machine Learning Scientist on Amazon Comprehend Medical . By combining entity recognition with relation extraction and traits on unstructured clinical text, we are unlocking the future development for our customers in healthcare space.

- o **NLP Scientist (Deep Learning & AI)**

  Apr 2017 - Oct 2018 1 year 7 months

  Seattle, Washington

  Building state of art NLP solutions using Deep Learning.

-

  Yik Yak, Inc.

  1 year 3 months

- o **Senior Machine Intelligence(Deep Learning & AI) Engineer**

  Jun 2016 - Apr 2017 11 months

  Atlanta

  Making machines intelligent and understand language the way we do.
  Building User Models, User Graphs, Feed Personalization and other language understanding components.

-
  - **Machine Intelligence(Deep Learning & AI) Engineer**

    Feb 2016 - Jun 2016 5 months

    Atlanta

    Making machines intelligent and understand language the way we do .

-

  Georgia Institute of Technology

  1 year 2 months

  - **Graduate Research Assistant - NLP (Under Dr. Jacob Eisenstein)**

    Aug 2014 - Feb 2016 1 year 7 months

    Using Joint Learning of BOW and Discourse features compositionality using
    Recursive Neural Networks to further enhance the State of Art Sentiment Analysis.
    [accepted EMNLP2015]

  - **Graduate Student**

    Aug 2014 - Dec 2015 1 year 5 months

    Greater Atlanta Area

  - **Graduate Teaching Assistant - Machine Learning**

    Jan 2015 - May 2015 5 months

    Graduate Machine Learning Course
    My responsibilities include-
    Grading Assignments
    Weekly office hours to answer student doubts

-

Graduate Student

Deep Learning Summer School, Univ of Montreal

Aug 2015 - Aug 2015 1 month

Montreal, Canada Area

Presented Poster on Sentence and User Representation Learning using Twitter Data

Data Scientist - Machine Learning - Data & Fundamentals

Microsoft
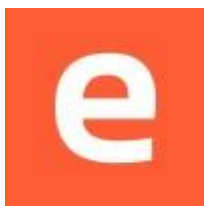
May 2015 - Aug 2015 4 months

Greater Seattle Area

Topic Modeling and Deep Learning Techniques for Upgrade Sentiment for Short and Long Text.

http://research.microsoft.com/en-us/projects/dssm/

Edifecs

2 years 3 months

o **Software Engineer - IC2**

Apr 2014 - Aug 2014 5 months

Mohali

- o **Associate Software Developer**

  Jun 2012 - Mar 2014 1 year 10 months

  CHANDIGARH

  Developing ETL(Extract Transform Load) on clinical data using STORM framework,MongoDB and applying inside into Patient Record using ExtJS.

  Contributing to the development of Edifecs Private Cloud framework [PaaS] for deploying, monitoring and interacting with Edifecs Product Suites and Services in multi-node cluster.
  Worked on developing HDM: Distributed real-time search, which is used to Archive Cold Data and providing search on top of that data using the metadata associated with…Show more

- **Software Development Intern at Microsoft Corporation**

  Microsoft

  May 2011 - Jul 2011 3 months

  Hyderabad Area, India

  Making a tool for measuring and improving the quality of PDFuzzer.

  I worked under RFX group and designed a tool [Fuzz-Meter]to determine the quality of a fuzzer , which also has the ability to reconfigure the variable of the Fuzzer to get the Fuzzer with the maximum code coverage .

  Enhanced the features of PDF Object of our fuzzer by implementing cloning of the Complete PDF in our fuzzer which helped in increasing the efficiency of the Fuzzer on the whole.

Education

[**Georgia Institute of Technology**](#)

Master Computational Science & Engineering Machine Learning 4.0 GPA

2014 - 2015

[**Indian Institute of Technology, Ropar**](#)

Ropar B.Tech Computer Science and Engineering

2008 - 2012

Activities and Societies: Currently holding position of Science and Technology Secretary and responsible for organizing many worshops, promoting events of innovations and starting robotics club in our college. ☐ Financial Head in our colleges premier cultural fest 'ZIET-GEIST'.

Publications

- [**Dynamic Transfer Learning for Named Entity Recognition**](#)

  AAAI 2019 2019

  [**See publication**](#)

- [**End-to-end Joint Entity Extraction and Negation Detection for Clinical Text**](#)

  AAAI 2019 2019

  [**See publication**](#)

- **Improving hospital mortality prediction with medical named entities and multimodal learning**

  NuerIPS 2018 2018

- **Soc2Seq: Social Embedding meets Conversation Model**

  Proceedings of the Conference on Neural Information Processing Systems Workshop on Conversational AI 2017

- **Morphological Priors for Probabilistic Neural Word Embeddings**

  Empirical Methods in Natural Language Processing (EMNLP) - 2016 August 6, 2016

  Word embeddings as latent variables: condition on the morphology, generate the corpus.
  Our paper appeared at EMNLP 2016: Morphological Priors for Probabilistic Neural Word Embeddings, which details a bayesian framework for computing word embeddings, treating the embedding components as random variables and imposing a prior using sub-word level information. In our paper, we used a prior based on the morphemes in a word, but other sources of information (e.g a character LSTM) could be used in…Show more

  Other authors

    -

  See publication

- **Better Document-level Sentiment Analysis from RST Discourse Parsing**

  Empirical Methods in Natural Language Processing (EMNLP) - 2015 August 15, 2015

  We present a recursive neural network over the RST structure, which offers significant
  improvements over classification based methods.

  See publication

Courses

- **Advanced Internet Computing**

-

- **Analysis and Design of Algortihms**

  CSL 356

- **Artificial Intelligence**

  -

- **Computer Graphics**

  CSL 307

- **Computer Networks**

  CSL 343

- **Computer Vision**

  -

- **Data And Visual Analytics/Data Science**

  -

- **Data Structures**

  CSL 205

- **Database Management Systems**

  CSL 301

- **Deep Learning**

  -

- **High Performance Computing**

  -

- **Machine Learning**

  -

- **Natural Language Processing**

-

- **Numerical Linear Algebra**

  -

- **Operating Systems**

  CSL 333

- **Software Engineering**

  CSL 306

- **Special Problem - Genetic Algorithms**

  -