certilytics

BrainstormAI® Model Library

Provider Practice GPT

Identify physicians who are ineffectively treating patients and driving up healthcare costs.

Certilytics has pushed the boundaries on how AI-driven solutions can create powerful analytic insights for healthcare organizations since Day 1.

Provider Practice GPT, one of several solutions built on the company's CORE® GPT Clinical Pathways model, is our innovate approach to how GenAI and language models can be leveraged in healthcare to reduce costs and increase provider accountability and efficacy.

Historically, the barrier to this kind of analysis has been the complexity of provider practice patterns, and the inability to control for differences in member medical contexts. Provider Practice GPT overcomes this by building a sophisticated internal model of treatment pathways using GenAI, which can take member context into account.

With the insights from Provider Practice GPT, healthcare organizations are:

- Identifying physicians who are ineffectively treating patients and driving up costs
- Building networks of physicians who have effective treatment practices
- Better managing their value-based care strategies
- Improving clinical outcomes and reducing healthcare costs for all

Our Approach

An AI-driven Predictive Analytics Solution Built for Healthcare

How Does it Work?

- To measure the efficacy or quality of specialists, first you need to fully contextualize practice patterns using member conditions and pathways
- For any given condition, the model takes and inputs member demographics and morbidity along with the exact sequence of procedure codes and acute utilization events that occur in time
- The model then outputs the next series of procedures and acute events expected over the next time period, up to two years—at the procedure code level
- These prediction can then be used as a benchmark to measure the deviation of specific provider practice patterns and zero in on the physicians specifically who are unnecessarily increasing cost

Example Provider Practice GPT Model Output

Actual Sequence

	Orig tokens	Orig description	Pred tokens	Pred description
0	doc_start	Document start token.	doc_start	Document start token.
1	gendercd_2	Female	gendercd_2	Female
2	age_2_9	Member is between 2 to 9 years old	age_2_9	Member is between 2 to 9 years old
3	core_23c	Preventive Vaccines	core_23c	Preventive Vaccines
4	period_0	Begin period 0	period_0	Begin period 0
5	proc1_90460	IM ADM THRU 18YR ANY RTE 1ST/ONLY COMPT VAC/TOX	proc1_90460	IM ADM THRU 18YR ANY RTE 1ST/ONLY COMPT VAC/TOX
6	proc1_90686	IIV4 VACC PRESRV FREE 0.5 ML DOS FOR IM USE	proc1_90686	IIV4 VACC PRESRV FREE 0.5 ML DOS FOR IM USE
7	proc1_90471	IM ADM PRQ ID SUBQ/IM NJXS 1 VACCINE	proc1_90471	IM ADM PRQ ID SUBQ/IM NJXS 1 VACCINE
8	proc1_90686	IIV4 VACC PRESRV FREE 0.5 ML DOS FOR IM USE	proc1_90686	IIV4 VACC PRESRV FREE 0.5 ML DOS FOR IM USE
9	period_3	Begin period 3	period_3	Begin period 3
10	proc1_90471	IM ADM PRQ ID SUBQ/IM NJXS 1 VACCINE	proc1_90460	IM ADM THRU 18YR ANY RTE 1ST/ONLY COMPT VAC/TOX
11	proc1_90686	IIV4 VACC PRESRV FREE 0.5 ML DOS FOR IM USE	proc1_90461	IM ADM THRU 18YR ANY RTE ADDL VAC/TOX COMPT
12	period_4	Begin period 4	proc1_90696	DTAP-IPV VACCINE CHILD 4-6 YRS FOR IM USE
13	proc1_90460	IM ADM THRU 18YR ANY RTE 1ST/ONLY COMPT VAC/TOX	proc1_90710	MEASLES MUMPS RUBELLA VARICELLA VACC LIVE SUBQ
14	proc1_90461	IM ADM THRU 18YR ANY RTE ADDL VAC/TOX COMPT	period_4	Begin period 4
15	proc1_90696	DTAP-IPV VACCINE CHILD 4-6 YRS FOR IM USE	proc1_90471	IM ADM PRQ ID SUBQ/IM NJXS 1 VACCINE
16	proc1_90710	MEASLES MUMPS RUBELLA VARICELLA VACC LIVE SUBQ	proc1_90686	IIV4 VACC PRESRV FREE 0.5 ML DOS FOR IM USE
17	period_7	Begin period 7	period_8	Begin period 8
18	proc1_90471	IM ADM PRQ ID SUBQ/IM NJXS 1 VACCINE	proc1_90471	IM ADM PRQ ID SUBQ/IM NJXS 1 VACCINE
19	proc1_90686	IIV4 VACC PRESRV FREE 0.5 ML DOS FOR IM USE	proc1_90686	IIV4 VACC PRESRV FREE 0.5 ML DOS FOR IM USE
20	[EOS]	Document end token.	[EOS]	Document end token.

Input

Output

The model predicts the correct series of vaccines and attendant procedure codes.

Are you ready to use AI-driven approaches to build better provider networks and achieve your value-based care strategies?

MEET WITH OUR TEAM TODAY!

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Learn More

Explore how our AI-driven solutions are helping make healthcare more efficient and affordable at **certilytics.com**