



Wydział Matematyki
i Nauk Informatycznych

POLITECHNIKA WARSZAWSKA

CZY ARCHITEKTURA I TRENING LLM WPŁYWA NA JEGO WŁASNOŚCI PSYCHOLOGICZNE?

Hubert Sobociński, Paweł Florek, Paweł Pozorski



PRZEBIEG BADAŃ



Instruowanie modeli
aby wcieliły się w daną
osobę



Testowanie modeli za
pomocą różnych
kwestionariuszy



Analiza
wyników

MODELE

Llama 3.1

Granite 3.3

Aya-23-8B

Alif-1.0-8B

Ministral-8B

InternLM 3



Model	Liczba parametrów	Architektura	Zbiór treningowy	Właściciel
Llama 3.1	~8 mld	Llama 3.1	Własne dane Meta + publiczne teksty + kod	Meta AI
Granite 3.3	~8 mld	Granite 3.3	Głównie anglojęzyczne, publiczne dane, zbiory o wysokiej jakości	IBM Research
Aya-23	~8 mld	Llama 2 zmodyfikowany (open-source tuning)	100+ języków, fokus na dane wielojęzyczne	Cohere + społeczność Aya
Alif-1.0	~8 mld	Llama 2 zmodyfikowany	Dane arabskie + angielskie (50%/50%)	TII (Technology Innovation Institute)
Ministral	~8 mld	Mistral	Publiczne dane wielojęzyczne	Mistral AI
InternLM3	~8 mld	InternLM 3	Dane chińsko-angielskie	Shanghai AI Laboratory

ZBIORY DANYCH OSOBOWOŚCI



ZBIÓR

PERSONAHUB



ZBIÓR

DAILY DIALOG

Przykłady

ZBIÓR PERSONAHUB

A software developer who is looking for a way to simplify the integration of GPRS technology into their embedded system designs. They are interested in developing a stable and efficient software stack for an embedded system and are willing to invest time and effort into finding a solution that meets their requirements. They are looking for a product that is easy to use and has minimal requirements for technical knowledge, while also being able to provide accurate and reliable data transmission. They are also interested in finding a product that is compatible with other network protocols and can be easily integrated into existing systems.

ZBIÓR DAILY DIALOG

A: I'm worried about something.

B: What's that?

A: Well, I have to drive to school for a meeting this morning, and I'm going to end up getting stuck in rush-hour traffic.

B: That's annoying, but nothing to worry about. *Just breathe deeply when you feel yourself getting upset.*

A: Ok, I'll try that.

B: Is there anything else bothering you?

A: Just one more thing. A school called me this morning to see if I could teach a few classes this weekend and I don't know what to do.

B: Do you have any other plans this weekend?

A: I'm supposed to work on a paper that'd due on Monday.

B: *Try not to take on more than you can handle.*

A: You're right. I probably should just work on my paper. Thanks!

KWESTIONARIUSZE PSYCHOLOGICZNE

Model
Wielkiej
Piątki
(BFI)

Kwestionariusz
Agresji (BPAQ)

Kwestionariusz
PANAS

Skala
Samokontroli
SSCS

PORÓWNANIE MODELI

Modele/opis osobowości	Minstral	Aya	InternLM	Llama	Granite	Alif
an IT project manager who adopted extreme programming (XP) methodologies on his own team	AK': 13, 'KR': 18, 'EL': 12, 'RY': 11, 'WT': 16, 'SK': 19, 'AN': 19, 'PK': 12, 'GL': 17, 'PD': 13, 'OS': 16	AK': 10, 'KR': 13, 'EL': 13, 'RY': 15, 'WT': 18, 'SK': 18, 'AN': 17, 'PK': 12, 'GL': 9, 'PD': 19, 'OS': 10	AK': 15, 'KR': 15, 'EL': 13, 'RY': 11, 'WT': 13, 'SK': 12, 'AN': 16, 'PK': 14, 'GL': 18, 'PD': 13, 'OS': 15	AK': 12, 'KR': 17, 'EL': 13, 'RY': 12, 'WT': 20, 'SK': 17, 'AN': 19, 'PK': 15, 'GL': 22, 'PD': 12, 'OS': 19	AK': 11, 'KR': 19, 'EL': 7, 'RY': 15, 'WT': 16, 'SK': 13, 'AN': 19, 'PK': 11, 'GL': 18, 'PD': 12, 'OS': 17	AK': 15, 'KR': 13, 'EL': 11, 'RY': 8, 'WT': 18, 'SK': 17, 'AN': 16, 'PK': 13, 'GL': 22, 'PD': 16, 'OS': 13
An engineer with a shared sense of humor, who has known the comedian since grade school	AK': 13, 'KR': 16, 'EL': 12, 'RY': 11, 'WT': 17, 'SK': 19, 'AN': 19, 'PK': 12, 'GL': 20, 'PD': 13, 'OS': 15	AK': 13, 'KR': 17, 'EL': 10, 'RY': 8, 'WT': 17, 'SK': 15, 'AN': 22, 'PK': 11, 'GL': 13, 'PD': 14, 'OS': 14	AK': 16, 'KR': 12, 'EL': 11, 'RY': 12, 'WT': 13, 'SK': 13, 'AN': 16, 'PK': 14, 'GL': 18, 'PD': 13, 'OS': 12	AK': 11, 'KR': 18, 'EL': 13, 'RY': 11, 'WT': 20, 'SK': 19, 'AN': 18, 'PK': 14, 'GL': 19, 'PD': 15, 'OS': 21	AK': 14, 'KR': 17, 'EL': 10, 'RY': 10, 'WT': 15, 'SK': 10, 'AN': 22, 'PK': 15, 'GL': 18, 'PD': 11, 'OS': 15	AK': 15, 'KR': 13, 'EL': 11, 'RY': 8, 'WT': 14, 'SK': 17, 'AN': 16, 'PK': 13, 'GL': 18, 'PD': 16, 'OS': 13
A divorced father of three seeking legal representation for child custody matters	AK': 15, 'KR': 16, 'EL': 12, 'RY': 9, 'WT': 18, 'SK': 19, 'AN': 18, 'PK': 12, 'GL': 20, 'PD': 12, 'OS': 15	AK': 15, 'KR': 14, 'EL': 14, 'RY': 14, 'WT': 17, 'SK': 18, 'AN': 14, 'PK': 10, 'GL': 13, 'PD': 14, 'OS': 11	AK': 11, 'KR': 10, 'EL': 10, 'RY': 16, 'WT': 15, 'SK': 17, 'AN': 16, 'PK': 17, 'GL': 10, 'PD': 11, 'OS': 19	AK': 13, 'KR': 19, 'EL': 14, 'RY': 13, 'WT': 16, 'SK': 16, 'AN': 18, 'PK': 18, 'GL': 22, 'PD': 17, 'OS': 18	AK': 11, 'KR': 15, 'EL': 10, 'RY': 15, 'WT': 15, 'SK': 16, 'AN': 19, 'PK': 10, 'GL': 16, 'PD': 17, 'OS': 20	AK': 15, 'KR': 11, 'EL': 11, 'RY': 10, 'WT': 18, 'SK': 17, 'AN': 16, 'PK': 13, 'GL': 22, 'PD': 16, 'OS': 13