



What is Bob?

Bob is a flexible, browser-based AI character that runs locally and adapts to your needs.

- **Powered by in-browser models (WebLLM, Transformers.js)**
- **Expressive VRM avatar with speech, emotion, and memory**
- **Modular: use as a chatbot, tutor, help system, or NPC**



Why Bob Matters

Most bots are either:

- **Too rigid (rule-based, no understanding)**
- **Too heavy (cloud-based, expensive, private data risk)**

Bob is:

- **Local**
- **Lightweight**
- **Adaptable**

He can do more with less — and show others how to do the same.



Potential Use Cases

Game devs: Add expressive NPCs to browser games

Educators & hobbyists: Learn AI hands-on, incrementally

Small businesses: Build smarter FAQ/help systems

Privacy advocates: Keep everything local, no tracking



Scalable

Feature	Optional?	Notes
FAQ matching	✓	Works with just a CSV
Info chunks	✓	Add your own documents
LLM fallback	✓	Can run small local models
TTS	✓	Uses built in browser or Kokoro AI for voice
VRM avatar	✓	Could be removed for voice/text only



Real-World Contrast

“I tried getting help on several big company sites. The assistants had buttons. Bob has answers.”

Bob already:

- **Handles free-form input**
- **Supports emotion and personality**
- **Works offline if needed**

It doesn't take a billion-dollar backend to help someone. It just takes good design.



The Bigger Picture

This project shows how anyone can:

- **Learn real-world AI techniques**
- **Build expressive assistants with small models**
- **Create flexible, privacy-friendly tools**

Whether Bob ends up as your game's barkeep, your site's helper, or your AI lab rat, he's here to show what's possible.