



Xian FaithWorks AI Technology LTD.

AI Revolution - Innovation for Solutions

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-Company Introduction

Xi'an FaithWorks AI Technology Ltd. specializes in AI applied R&D and solution design. Leveraging big data, computer vision, NLP, biometrics, etc., we offer customized one-stop AI solutions to meet client needs.

-Our Vision

Guided by “AI Revolution — Innovation for Solutions”, we blend innovation and AI to transform industries and create opportunities.

-Our Mission

Transform enterprise operation and customer engagement, unlock AI's potential. Lead the industry, achieve success, and benefit customers and the whole industry.

-Our Strategy

We leverage corporate know-how, blend AI algorithms with software and hardware to make client products. By valuing customer assets, we pioneer AI solutions to improve end-user experience, drive biz innovation, lift brand value and link enterprise resources to customer needs.

-Competitive Advantage

With unique vision and tech skills, we explore AI's commercial potential. Aiming for an efficient, intelligent ecosystem, we use AI to unlock enterprise value, meet customer needs and drive for greater achievements.



About Us

Product Introduction

I 、Applications of Computer Vision: PalmFaith Palm Vein Recognition

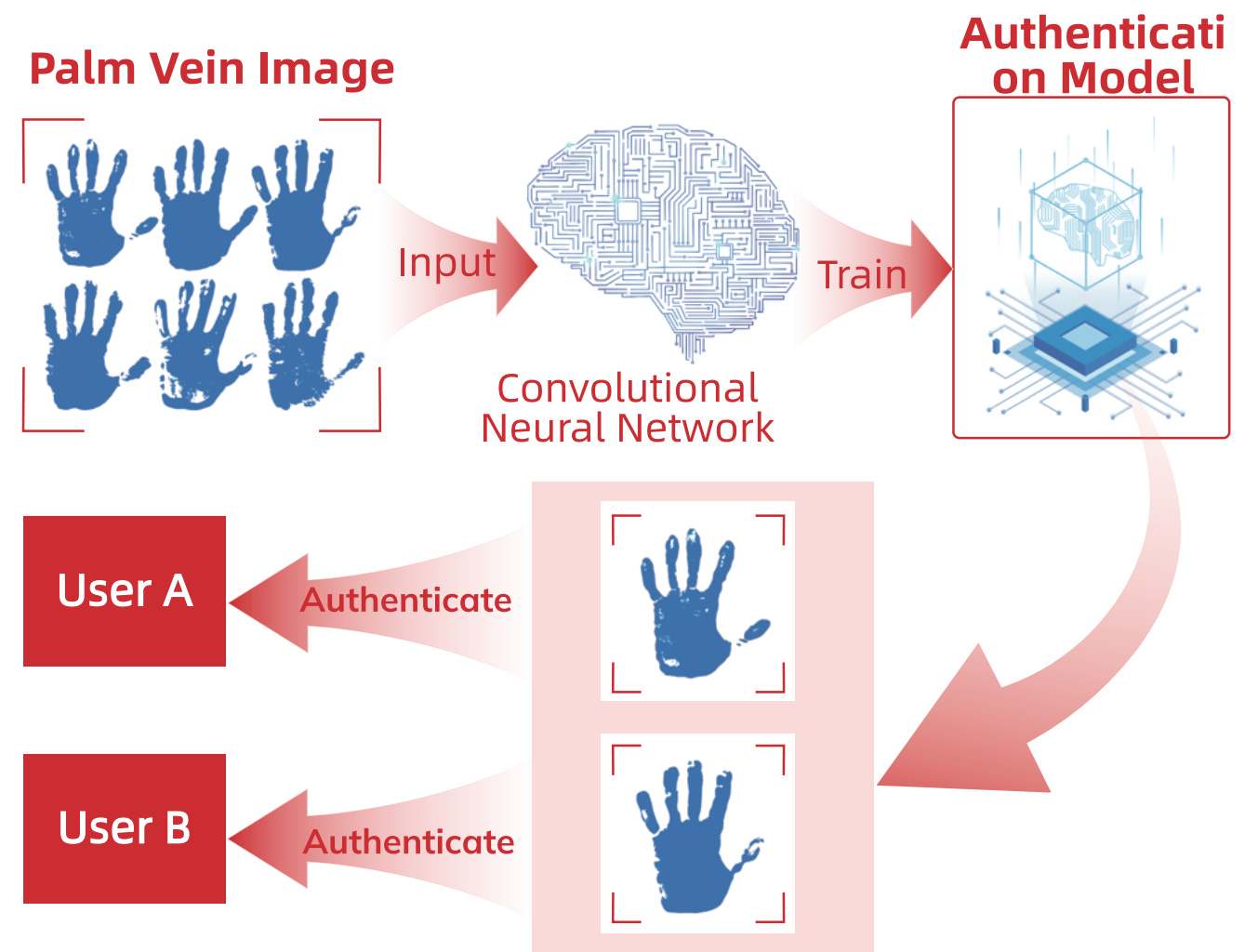
PalmFaith uses AI and computer vision for palm vein recognition. It provides secure, convenient authentication, offers accurate results, and suits access control, financial transactions. Try it and embrace future ID recognition.



Next-gen ID authentication technologies and products

-Technical Principle:

The main technologies and processing steps for palm vein recognition are as follows.



- 01. AI algorithms extract unique features from pre-processed images.
- 02. Train AI model with multiple images.
- 03. Capture and extract features when user presents palm.
- 04. Compare with trained model to determine access.



-Palm Vein VS Other biometrics

Biometric	Forge	Secure	Privacy	Experience	Accuracy
<i>Palm Vein</i>	Nearly unforgable	Secure	Convenient & hygienic	Smooth	High
<i>Fingerprint</i>	Prone to forgery	Reasonably	Privacy-critical	Delicate	Precise
<i>Facial</i>	Mask-fooled	Risky	Problematic	Variable	Fluctuates
<i>Iris</i>	Highly unfakeable	Secure	Worrisome	Synchronized	Very high
<i>Voice</i>	Noise-prone	Vulnerable	Risky	Adaptable	Variable

-Palm Vein Recognition Characteristics

High Security
Veins inside body, unforgeable.

Privacy Protection
Privacy-assured collect-recognition kit.

High Accuracy
Offers highly accurate and swift recognition.

Contactless
Clean and hygienic, reducing cross-contamination risk.

Difficult to Forge
Venous blood features and vessel structures hard to mimic.

Strong Stability
Less affected by external conditions.

-Product Application Domains



Access Control

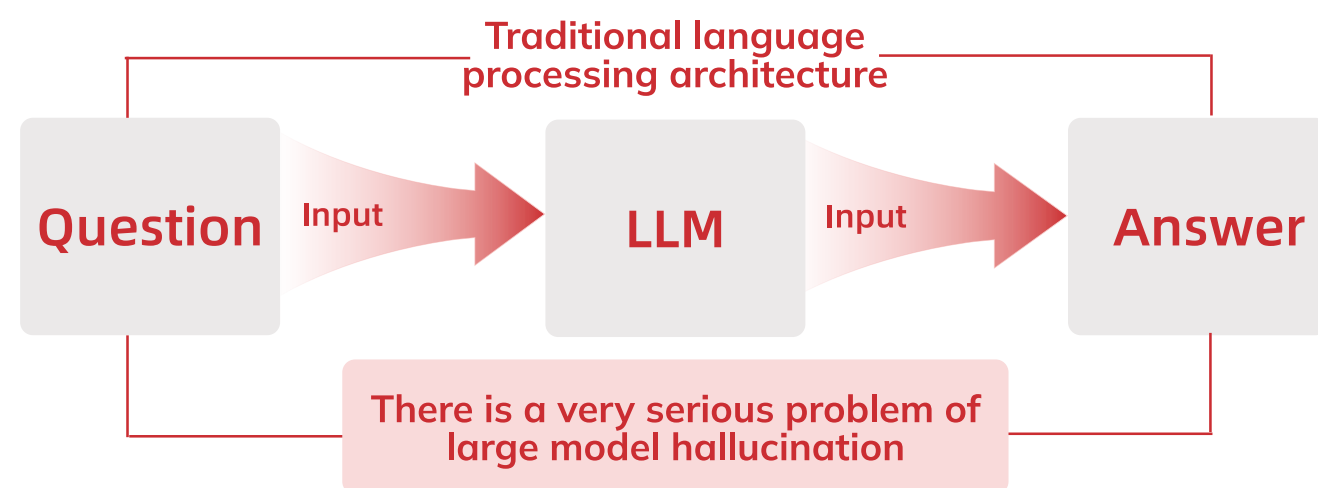


Payment System

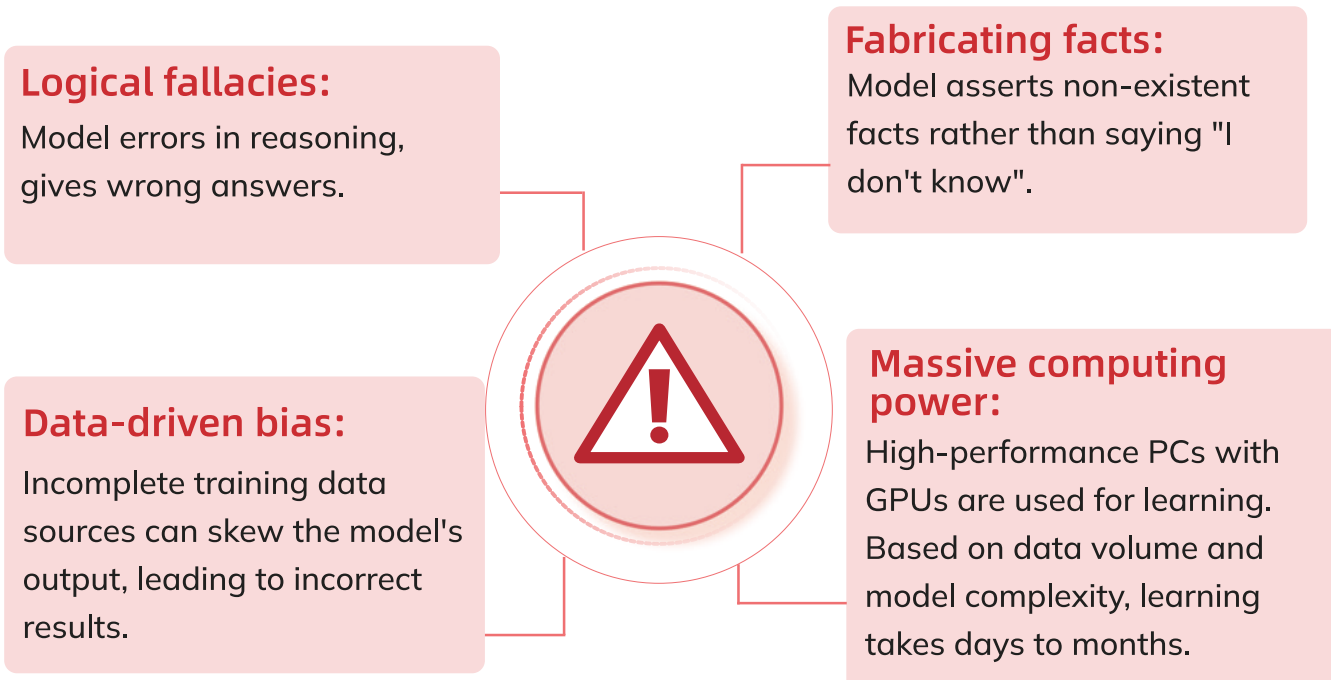
Customized for industries, integrating software, hardware and cloud to offer various assistants. It has broad prospects in education, healthcare, elderly care, law, finance, e-commerce, etc.

II、Natural Language Processing: ChatFaith Intelligent Dialogue and Knowledge Q&A

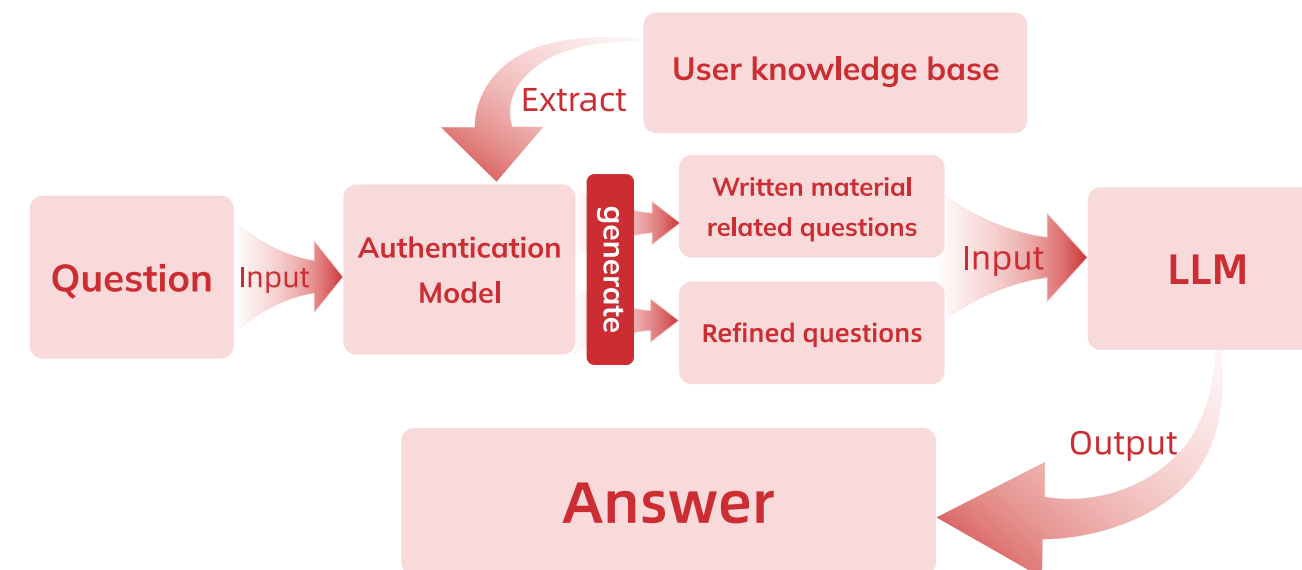
Natural language processing is a key application area of generative AI. AI chat and knowledge Q&A apps often use LLM to understand text semantics and generate responses.



In the figure, directly using LLM to generate answers suffers from serious large model hallucination, affecting answer accuracy. Main manifestations are as follows:



-ChatFaith is a dialogue and knowledge Q&A system based on generative AI, is developed to tackle large language model issues and target market applications in specific industries.



-ChatFaith Advantages

- Efficiency:** Skip LLM training data, focus on inference. Low cost, high speed.
- Security:** User knowledge base stays private.
- Accuracy:** LLM answers limited by input, precise and controllable.
- Targeted:** Highly relevant, captures low-frequency knowledge.
- Timeliness:** Update base for latest data, ensuring timely answers.

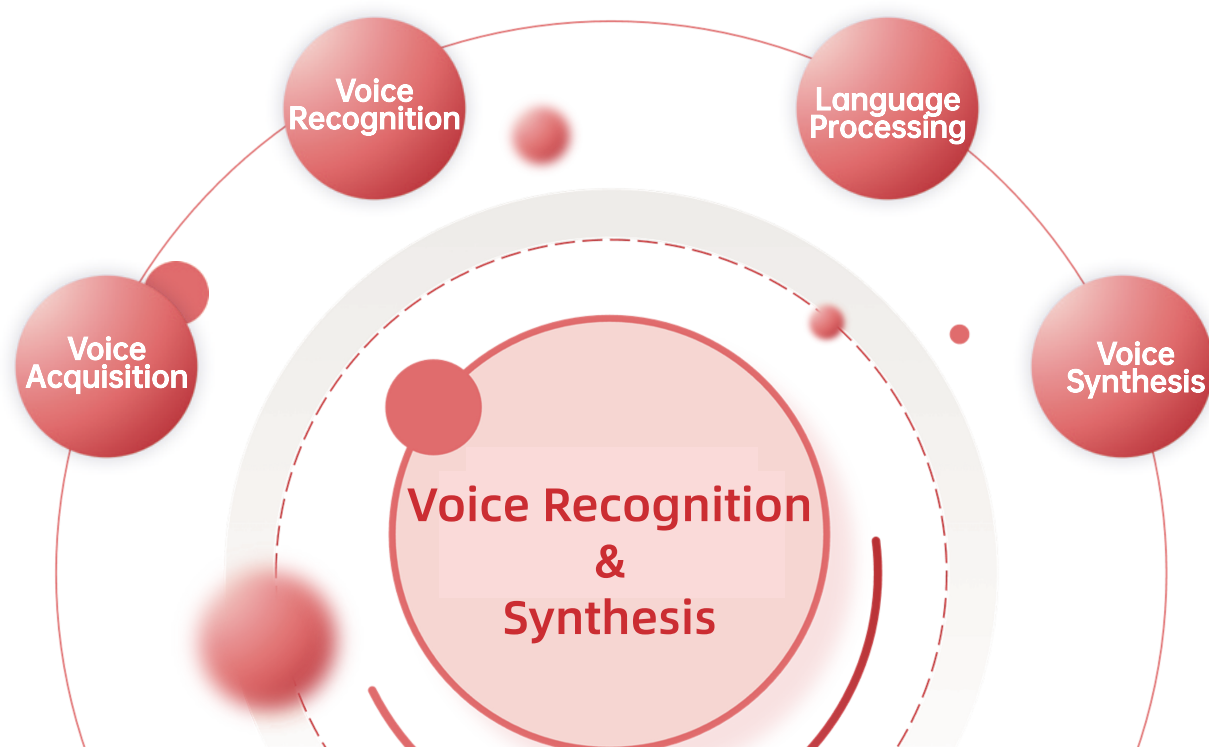
-ChatFaith Products and Services

Customized for industries, it integrates software, hardware, and cloud to offer chatbots, customer service, and assistants. It has wide prospects in education, healthcare, elderly care, law, finance, e-commerce, and info services.

III、Generative Speech Model: VoiceFaith Speech Recognition & Synthesis



In human communication, voice is crucial as it conveys feelings, adding depth. VoiceFaith, a generative AI voice model covering speech recognition and synthesis, paired with ChatFaith for language processing, enables natural conversations.



-VoiceFaith Characteristics

- **Diverse:**
Supports Chinese, English, Japanese, Korean.
- **Emotional:**
Supports emotion recognition.
- **Real-time:**
Uses NPU & chips, great real-time perf.
- **Customizable:**
Highly customizable, trains for dialects.
- **Efficient:**
Software algos, low CPU/mem use, cheap to deploy.

-VoiceFaith Application Scenarios and Services

01. Educational Domain

- **Textbook Voicing:** Offer listening learning, natural voices boost memory.
- **Pronunciation Evaluation:** Analyze & compare student pronunciation, give feedback.
- **Conversation Practice:** Do convos on set content for listening & speaking skills.
- **Intelligent Teaching Assistant:** Enable student-virtual assistant convos, boost interest.

02. Language Processing

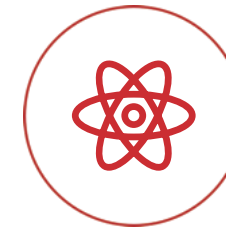
- Provide real-time subtitles for media to help the hearing-impaired access info quickly.
- Replace real-person dubbing to cut production costs.

03. Service Domain

- **Communication-companion:** Intelligent chatbots offer voice comm. & companionship for seniors and kids.
- **EmoCare:** Analyze voice emotions, provide online counseling.

Look forward to working with you!

Our corporate culture



Innovation-Driven

In the fast-evolving tech realm, we deem innovation the core of enterprise growth. We urge employees to take risks, explore new tech and methods, driving continuous product and service upgrades to lead the industry.



Customer-Oriented

Putting user needs first, we're dedicated to top-notch products and services. By understanding their demands deeply and optimizing experiences, we earn trust and support for sustainable enterprise development.



Future Outlook

We'll adhere to the "AI Revolution - Innovation for Solutions" culture, fueling innovation. We anticipate partnering with like-minded peers to explore tech prospects and challenges, aiming to empower society and progress. Also, we'll boost our innovation and competitiveness to create user value and pioneer in tech.

Don't hesitate to reach out to us. Our team is ready to answer your questions and help you find the perfect solution!

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