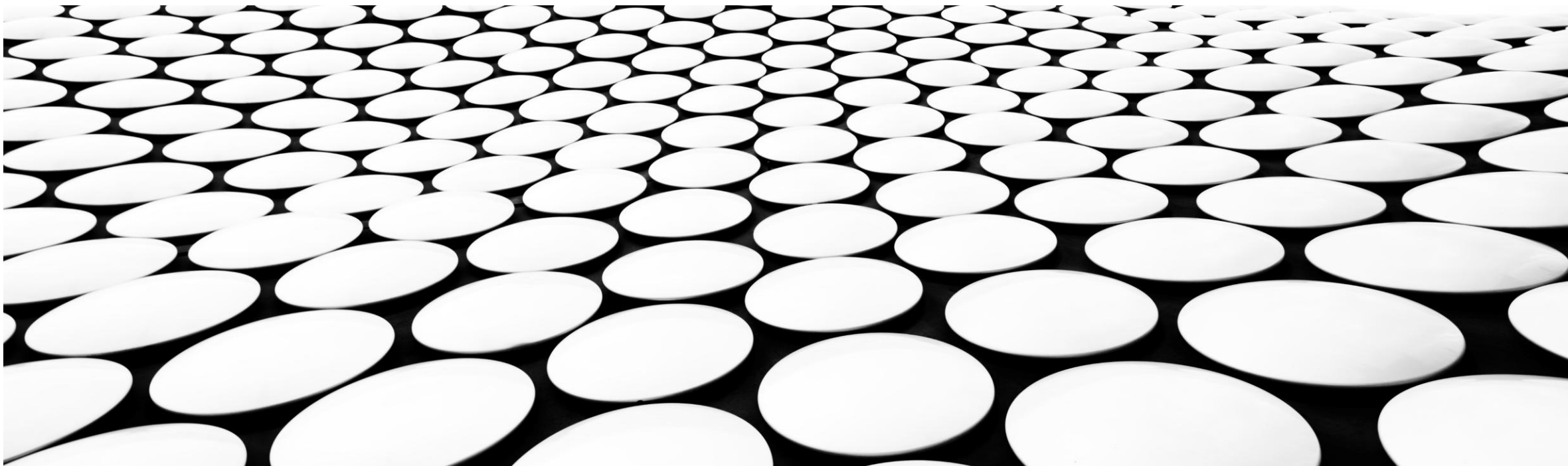

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OUTLINE

- TensorFlow Demo
- Chatbot Demo
- Translation Demo
- Automatic Speech Recognition (ASR) model



1. TENSORFLOW

- Making Predictions from 2D Data
- **Making predictions / training models from image**

TENSORFLOW MODEL FRAMEWORK / MODEL

	Languages supported	LICENSE	
Using TensorFlow.js (unmodified)	No action required, but adding a note in your README is good practice.	Apache 2.0	
Modifying TensorFlow.js	Retain the license header, add modification notice.	No action required, but adding a note in your README is good practice.	Apache 2.0
Whisper-small	Multilingual	MIT license	
Whisper-medium	Multilingual	MIT license	

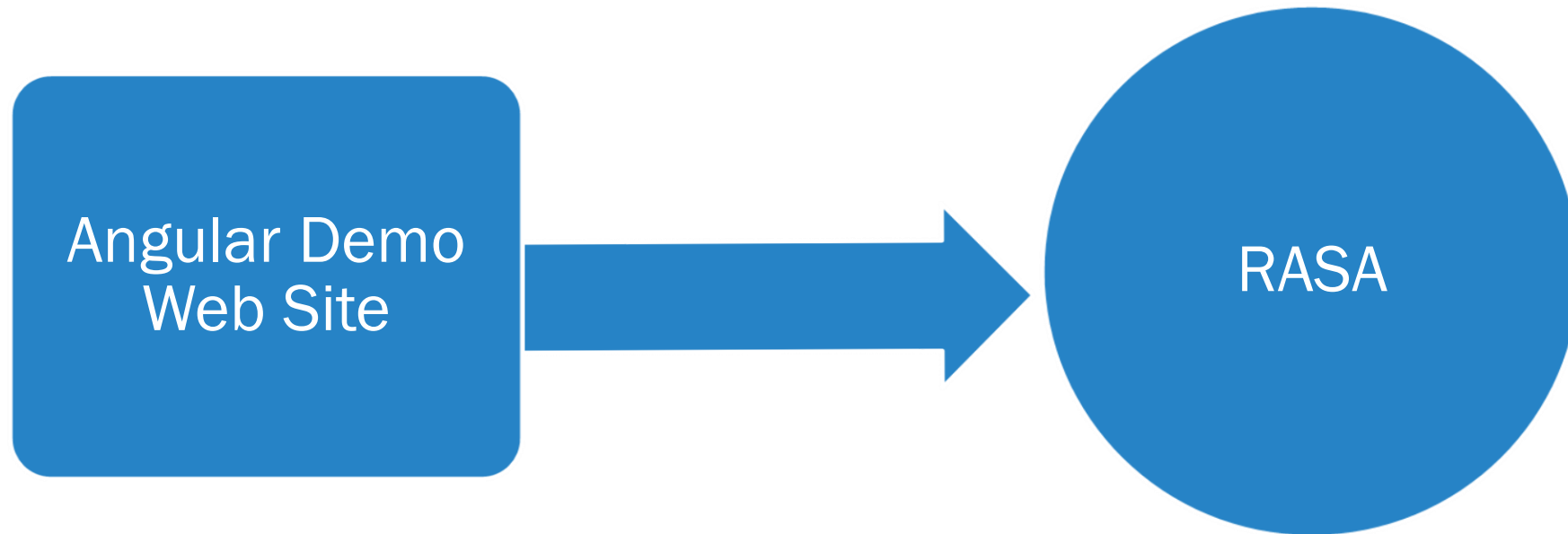
2 .CHATBOT FRAMEWORK / MODEL

- **Determine Chatbot Type**
 - **Hybrid:** Combines rule-based logic with AI-driven responses.
- **Recommendation Models**
 - **Use Rasa + Mistral (Apache 2.0) Self-hosting**
- **Idea - Search Extension Support**

CHATBOT FRAMEWORK / MODEL

	PROS	CONS	LICENSE
Rasa(Traditional Chatbot)	Open-source, on-premise, high control, supports NLU & dialogue management	Requires manual training, complex workflows Apache 2.0 (Free & Commercial)	Apache 2.0 (Free & Commercial)
Meta Llama 2 (Generative AI (LLM-Based))	Strong text generation, open weights, can be fine-tuned	Requires GPU, Llama 2 license restrictions for big enterprises	Custom (Meta License)
Mistral (Generative AI (LLM-Based))	Open-source, permissive license, small but powerful	Less known than GPT models	Apache 2.0
GPT-4 (OpenAI) (Generative AI (LLM-Based))	Best for text understanding, commercial API available	Expensive API pricing, closed-source	Proprietary (OpenAI Terms)

DEMO



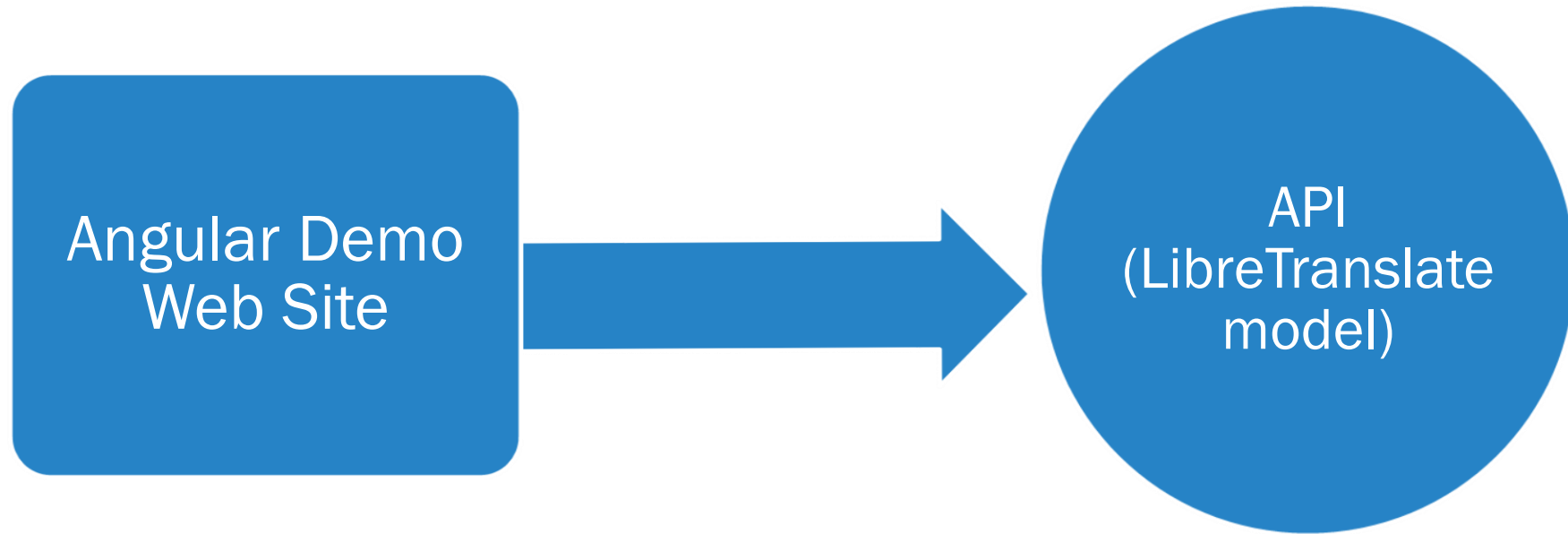
3. TRANSLATION FRAMEWORK / MODEL

- **OpenNMT**
 - **Open-source neural machine translation(NMT) framework**
 - **MIT license**
 - **Free for commercial application**

TRANSLATION FRAMEWORK / MODEL

ALTERNATIVE	PROS	CONS	LICENSE
LibreTranslate	Based on Argos Translate , Can download pre-trained models Can train custom models		GNU General Public License / can be used in commercial products
OpenNMT	Allows training your own translation models with domain-specific data. Good performance	Require training & deployment expertise	MIT
Fairseq(Facebook's NLP toolkit)	<ul style="list-style-type: none">- Strong community & research backing from Meta.- Highly optimized for large-scale training.	<ul style="list-style-type: none">- Complex setup.- Requires good hardware for training.	MIT
Marian NMT(Optimized NMT engine from Microsoft and others)	<ul style="list-style-type: none">- Fast inference.- Lightweight models.	<ul style="list-style-type: none">- Limited support for custom model architectures.	MIT
Hugging Face	<ul style="list-style-type: none">- Many pre-trained models.	<ul style="list-style-type: none">- May require fine-tuning	Apache 2.0

DEMO



4. AUTOMATIC SPEECH RECOGNITION (ASR) MODEL

- **Suggested Tools**
 - **Whisper Model - Self hosting**
- **Idea : Support Search Extension Support**

WHISPER MODEL FRAMEWORK / MODEL

	Languages supported	LICENSE
Whisper-tiny	Multilingual	MIT license
Whisper-base	Multilingual	MIT license
Whisper-small	Multilingual	MIT license
Whisper-medium	Multilingual	MIT license

DEMO



React Demo Web
Site/Whisper-tiny