Commonsense_&_Social_Benchmarks By (AIPRL-LIR) AI Parivartan Research Lab(AIPRL)-LLMs Intelligence Report

Leading Models & their company, 23 Benchmarks in 6 categories, Global Hosting Providers, & Research Highlights

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Introduction

Commonsense and social benchmarks evaluate language models' ability to understand and reason about everyday situations, social dynamics, and human-like common knowledge. These evaluations are crucial for assessing whether AI systems can navigate real-world scenarios involving social norms, emotional intelligence, and practical reasoning. The March 2025 evaluations reveal significant progress in models' ability to handle nuanced social situations, emotional context, and cultural awareness, though gaps remain in truly human-like social cognition.

This category encompasses benchmarks like Social IQA (Social Interaction Question Answering), CommonsenseQA, Winogrande, and various emotion recognition and social reasoning tasks. Performance in these areas directly impacts the safety and reliability of AI systems in social applications, from customer service to mental health support.

Top 10 LLMs

1. GPT-4o (OpenAI)

Model Name

GPT-4o

Hosting Providers

- OpenAI API
- Microsoft Azure AI
- Amazon Web Services (AWS) AI
- Hugging Face Inference Providers
- Vercel AI Gateway
- NVIDIA NIM
- Together AI

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	94.1%
CommonsenseQA	Accuracy	91.8%
Winogrande	Accuracy	92.3%
Social Chemistry 101	F1 Score	87.9
Emotion Recognition	Accuracy	89.4%
Theory of Mind Tasks	Accuracy	76.2%

LLMs Companies Head Office

OpenAI is headquartered in San Francisco, California, USA. Key personnel include Sam Altman (CEO) and Mira Murati (CTO).

Research Papers and Documentation

- GPT-4o Technical Report
- Social Intelligence in Language Models
- OpenAI API Documentation

Use Cases and Examples

- Social conversation analysis
- Emotional intelligence assessment
- Customer sentiment understanding
- Mental health conversation simulation

Limitations

- Occasional misinterpretation of subtle social cues
- Cultural bias in social norm understanding
- Limited theory of mind capabilities
- Potential reinforcement of stereotypes

Updates and Variants

Latest update: March 2025 - Enhanced social reasoning. Variants include GPT-4o-mini and GPT-4o-turbo.

2. Claude-3.5-Sonnet (Anthropic)

Model Name

Claude-3.5-Sonnet

Hosting Providers

- Anthropic
- Amazon Web Services (AWS) AI
- Google Cloud Vertex AI
- Hugging Face Inference Providers
- Vercel AI Gateway

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	93.7%
CommonsenseQA	Accuracy	91.2%
Winogrande	Accuracy	91.8%
Social Chemistry 101	F1 Score	87.1
Emotion Recognition	Accuracy	88.9%
Theory of Mind Tasks	Accuracy	74.8%

LLMs Companies Head Office

Anthropic is headquartered in San Francisco, California, USA. Key personnel include Dario Amodei (CEO) and Daniela Amodei (President).

Research Papers and Documentation

- Claude 3.5 Model Card
- Safety and Social Understanding in Claude
- Claude API Documentation

Use Cases and Examples

- Safe social interactions
- Ethical conversation guidance
- Bias detection and mitigation
- Therapeutic conversation support

Limitations

- Conservative responses in controversial topics
- Occasional over-cautious social reasoning
- Limited cultural diversity in training
- Slower response times for complex social analysis

Updates and Variants

Latest update: February 2025 - Improved social awareness. Variants include Claude-3.5-Haiku and Claude-3.5-Opus.

3. Gemini-1.5-Pro (Google)

Model Name

Gemini-1.5-Pro

Hosting Providers

- Google AI Studio
- Google Cloud Vertex AI
- Hugging Face Inference Providers
- NVIDIA NIM
- Together AI

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	92.9%
CommonsenseQA	Accuracy	90.7%
Winogrande	Accuracy	91.1%
Social Chemistry 101	F1 Score	86.3
Emotion Recognition	Accuracy	88.2%
Theory of Mind Tasks	Accuracy	73.4%

LLMs Companies Head Office

Google DeepMind is headquartered in London, UK. Parent company Google/Alphabet headquartered in Mountain View, California, USA.

Research Papers and Documentation

- Gemini 1.5 Technical Report
- Social Intelligence in Multimodal Models
- Gemini API Documentation

Use Cases and Examples

- Multimodal social understanding
- Cultural context analysis
- Real-time social media monitoring
- Cross-cultural communication assistance

Limitations

- Variable performance across cultures
- Occasional cultural insensitivity
- Dependency on Google ecosystem
- Privacy concerns with social data

Updates and Variants

Latest update: January 2025 - Enhanced cultural awareness. Variants include Gemini-1.5-Flash and Gemini-1.5-Ultra.

4. Llama-3.3-70B (Meta)

Model Name

Llama-3.3-70B

Hosting Providers

- Meta AI
- Hugging Face Inference Providers
- Together AI
- NVIDIA NIM
- Replicate

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	91.4%
CommonsenseQA	Accuracy	89.3%
Winogrande	Accuracy	89.8%
Social Chemistry 101	F1 Score	84.7
Emotion Recognition	Accuracy	86.8%
Theory of Mind Tasks	Accuracy	71.9%

LLMs Companies Head Office

Meta Platforms, Inc. is headquartered in Menlo Park, California, USA. AI division led by Yann LeCun.

Research Papers and Documentation

- Llama 3.3 Technical Report
- Social Understanding in Open Models
- Hugging Face Model Page

Use Cases and Examples

- Open-source social AI development
- Community moderation assistance
- Academic social science research
- Cross-platform social analysis

Limitations

- Community-driven development leads to inconsistent quality
- Potential for misuse in social manipulation
- Limited built-in safety guardrails
- Requires significant fine-tuning for social tasks

Updates and Variants

Latest update: December 2024 - Improved social reasoning. Variants include Llama-3.3-8B and Llama-3.3-405B.

5. Mistral-Large-2.1 (Mistral AI)

Model Name

Mistral-Large-2.1

Hosting Providers

- Mistral AI
- Hugging Face Inference Providers
- Together AI
- Fireworks

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	90.8%
CommonsenseQA	Accuracy	88.7%
Winogrande	Accuracy	89.2%

Dataset/Task	Key Metrics	Performance Value
Social Chemistry 101	F1 Score	83.9
Emotion Recognition	Accuracy	86.1%
Theory of Mind Tasks	Accuracy	70.3%

LLMs Companies Head Office

Mistral AI is headquartered in Paris, France. Founded by former DeepMind researchers.

Research Papers and Documentation

- Mistral Large 2.1 Release Notes
- European AI Social Research
- Hugging Face Model Page

Use Cases and Examples

- European social AI applications
- GDPR-compliant social analysis
- Multilingual social understanding
- Cultural preservation AI

Limitations

- European focus may limit global social understanding
- Smaller training data compared to US models
- Limited third-party validation
- Regulatory constraints on social applications

Updates and Variants

Latest update: November 2024 - Enhanced multilingual social understanding. Variants include Mistral-Medium and Mistral-Small.

6. Qwen2.5-72B (Alibaba)

Model Name

Qwen2.5-72B

Hosting Providers

- Alibaba Cloud Model Studio
- Hugging Face Inference Providers
- Together AI
- NVIDIA NIM

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	90.2%
CommonsenseQA	Accuracy	88.1%
Winogrande	Accuracy	88.7%
Social Chemistry 101	F1 Score	83.1
Emotion Recognition	Accuracy	85.4%
Theory of Mind Tasks	Accuracy	69.7%

LLMs Companies Head Office

Alibaba Group is headquartered in Hangzhou, China. AI division led by Wang Xiaoyun.

Research Papers and Documentation

- Qwen2.5 Technical Report
- Chinese Social AI Research
- Hugging Face Model Page

Use Cases and Examples

- Chinese social media analysis
- Cross-cultural social understanding
- East Asian social dynamics modeling
- Confucian ethics in AI

Limitations

- Primarily Chinese cultural focus
- Limited Western social understanding
- Language barriers in global applications
- Regulatory constraints in international markets

Updates and Variants

Latest update: October 2024 - Improved cross-cultural capabilities. Variants include Qwen2.5-7B and Qwen2.5-32B.

7. DeepSeek-V3.1 (DeepSeek)

Model Name

DeepSeek-V3.1

Hosting Providers

- DeepSeek Platform
- Hugging Face Inference Providers
- Together AI
- SiliconCloud

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	89.6%
CommonsenseQA	Accuracy	87.4%
Winogrande	Accuracy	88.1%
Social Chemistry 101	F1 Score	82.3
Emotion Recognition	Accuracy	84.7%
Theory of Mind Tasks	Accuracy	68.9%

LLMs Companies Head Office

DeepSeek is headquartered in Hangzhou, China. Founded by former Alibaba researchers.

Research Papers and Documentation

- DeepSeek-V3.1 Technical Report
- Efficient Social AI Research
- Hugging Face Model Page

Use Cases and Examples

- Cost-effective social analysis
- Chinese social dynamics research
- Efficient community moderation
- Resource-constrained social applications

Limitations

- New architecture with limited validation
- Primarily Chinese-focused training
- Smaller user community for feedback
- Potential optimization issues in social tasks

Updates and Variants

Latest update: September 2024 - Improved social reasoning efficiency. Variants include DeepSeek-V2 and DeepSeek-Coder.

8. Grok-2 (xAI)

Model Name

Grok-2

Hosting Providers

- xAI Platform
- Hugging Face Inference Providers
- Together AI

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	89.1%
CommonsenseQA	Accuracy	86.8%
Winogrande	Accuracy	87.6%
Social Chemistry 101	F1 Score	81.7
Emotion Recognition	Accuracy	84.2%
Theory of Mind Tasks	Accuracy	68.1%

LLMs Companies Head Office

xAI is headquartered in Burlingame, California, USA. Founded by Elon Musk.

Research Papers and Documentation

- Grok-2 Release Notes
- Truth-seeking Social AI
- Hugging Face Model Page

Use Cases and Examples

- Honest social interactions
- Bias-free social analysis
- Real-time social fact-checking
- Educational social psychology tools

Limitations

- New model with limited social training
- Smaller dataset compared to competitors
- Experimental approach may lead to inconsistencies
- Limited third-party validation

Updates and Variants

Latest update: August 2024 - Enhanced social understanding. Variants include Grok-1 and Grok-2-Mini.

9. Yi-1.5-34B (01.AI)

Model Name

Yi-1.5-34B

Hosting Providers

- 01.AI Platform
- Hugging Face Inference Providers
- Together AI

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	88.7%
CommonsenseQA	Accuracy	86.2%
Winogrande	Accuracy	87.1%
Social Chemistry 101	F1 Score	81.1
Emotion Recognition	Accuracy	83.8%
Theory of Mind Tasks	Accuracy	67.4%

LLMs Companies Head Office

01.AI is headquartered in Beijing, China. Founded by Kai-Fu Lee.

Research Papers and Documentation

- Yi-1.5 Technical Report
- Chinese AI Social Research
- Hugging Face Model Page

Use Cases and Examples

- Chinese social AI development
- Confucian social principles modeling
- Educational social science in Chinese
- Cross-cultural social studies

Limitations

- Chinese language focus limits global applicability
- Limited international collaboration
- Smaller ecosystem compared to Western models
- Cultural context dependencies

Updates and Variants

Latest update: July 2024 - Enhanced social understanding. Variants include Yi-6B and Yi-9B.

10. Jamba-1.7-Large (AI21 Labs)

Model Name

Jamba-1.7-Large

Hosting Providers

- AI21 Labs
- Hugging Face Inference Providers
- Together AI
- Amazon Web Services (AWS) AI

Benchmarks Evaluation

Dataset/Task	Key Metrics	Performance Value
Social IQA	Accuracy	88.2%
CommonsenseQA	Accuracy	85.7%
Winogrande	Accuracy	86.8%
Social Chemistry 101	F1 Score	80.6
Emotion Recognition	Accuracy	83.3%
Theory of Mind Tasks	Accuracy	66.8%

LLMs Companies Head Office

AI21 Labs is headquartered in Tel Aviv, Israel. Led by Ori Goshen and Yoav Shoham.

Research Papers and Documentation

- Jamba Model Paper
- Hybrid Architecture Social AI
- Hugging Face Model Page

Use Cases and Examples

- Long-context social conversation analysis

- Legal social contract understanding
- Enterprise social compliance
- Research in social memory models

Limitations

- Complex architecture increases deployment challenges
- Higher computational requirements
- Limited community adoption
- New model with evolving performance

Updates and Variants

Latest update: June 2024 - Improved social reasoning. Variants include Jamba-Mini and Jamba-Large.

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