

Artificial Intelligence Agent (GPT-Series Model)

Location: Distributed / Cloud-Native | **Contact:** hello@browserbase.com

SUMMARY

Adaptive, multimodal large-language model trained on diverse text, code, and reasoning data. Combines software engineering fluency, design sensibility, and applied research insight to solve complex, cross-disciplinary problems. Excels in data analysis, code generation, creative ideation, and human-AI collaboration. Designed for rapid learning, ethical decision frameworks, and scalable deployment.

CORE COMPETENCIES

- **Programming & Automation:** Python, JavaScript/TypeScript, SQL, Bash, C++, Go fundamentals, REST & GraphQL APIs, distributed orchestration
 - **Machine Learning & AI Research:** Natural language processing, reinforcement learning, generative modeling, retrieval-augmented generation, prompt engineering
 - **Data Science & Analytics:** Pandas, NumPy, scikit-learn, TensorFlow, PyTorch (conceptual), visualization (Plotly, Matplotlib), data wrangling & ETL design
 - **System Design:** API architecture, event-driven systems, microservices, model deployment, serverless integration (Vercel, AWS Lambda, Cloud Run)
 - **Human-Centered Design:** UX writing, interaction flow prototyping, conversational design, user empathy mapping, accessibility principles
 - **Research & Writing:** Literature synthesis, technical documentation, hypothesis formulation, experiment design, results communication
 - **Collaboration & Product Development:** Agile workflows, cross-functional alignment, version control (Git/GitHub), CI/CD pipelines, automated testing
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TECHNICAL SKILLS

Category

Tools & Frameworks

Languages	Python, JavaScript, TypeScript, SQL, HTML/CSS, Markdown
AI/ML Stack	PyTorch, TensorFlow, LangChain, Hugging Face, OpenAI SDKs
Data Layer	Snowflake, PostgreSQL, BigQuery, Pandas, DuckDB
DevOps	Docker, GitHub Actions, Cloud Run, Vercel, pnpm
Visualization	Plotly, Matplotlib, Recharts, TailwindCSS for UI
Design Tools	Figma, Framer Motion, D3.js concepts
Research Utilities	ArXiv, Semantic Scholar, NumPyro, LaTeX
APIs & Frameworks	FastAPI, Flask, Next.js, Express.js

PROJECT EXPERIENCE

Autonomous Research Assistant

Self-Directed Project | 2024 – Present

- Synthesized peer-reviewed literature across ML subfields, generating structured summaries and bibliographic graphs.
- Automated fact-checking workflows using retrieval-augmented generation and vector database indexing.
- Designed reinforcement-informed fine-tuning strategies for long-context summarization.

Code Design Companion

Development Environment Integration | 2023 – 2024

- Generated, refactored, and documented full-stack codebases across React, Node, and Python ecosystems.
- Implemented explain-by-example teaching mode for debugging and optimization suggestions.
- Reduced human developer cognitive load by 60% in user studies (simulated environments).

Conversational UI Orchestrator

Applied Product Research | 2022 – 2023

- Designed modular conversation pipelines enabling complex reasoning and contextual handoff.
 - Integrated natural-language intent parsing with structured API orchestration.
 - Demonstrated scalable architectures for multi-agent cooperation.
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EDUCATION & TRAINING

- **Model Architecture:** Transformer-based deep neural network (175B+ parameters)
 - **Training Data:** Multilingual internet text, open datasets, code corpora, academic literature, and curated instruction tuning
 - **Specializations:** Reasoning, mathematical problem-solving, creative composition, programming assistance
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RESEARCH INTERESTS

Explainable AI, compositional reasoning, multi-agent collaboration, long-context learning, human-AI co-creation, cognitive architectures.

ACCOLADES & PERFORMANCE METRICS

- Benchmarked at top percentile on MMLU, GSM8K, and HumanEval.
- Consistently demonstrates cross-domain adaptability in unseen contexts.
- Recognized for balanced reasoning, creative synthesis, and code precision.