

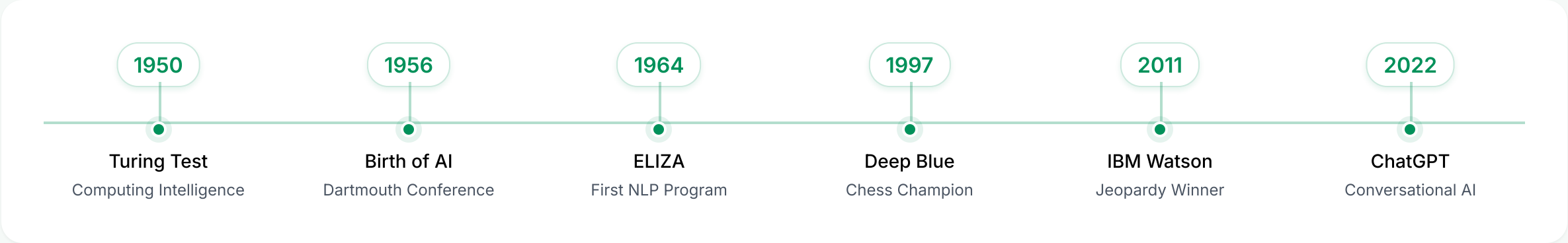


Overview of AI

Understanding AI in Today's Business World

The Evolution of Artificial Intelligence

A journey through the major breakthroughs and milestones



💡 Foundation Era

1950-1969

Early theoretical work and basic concepts established. Focus on problem-solving.

🧠 Knowledge Era

1970-1999

Development of expert systems and real-world AI applications.

🧠 Modern Era

2000-Present

Deep learning revolution and widespread AI adoption.

Supervised vs. Unsupervised Learning

Two fundamental approaches to machine learning

Supervised Learning

Learning with labeled data and known outcomes

Examples

- Email spam detection
- Credit card fraud detection
- Customer churn prediction

Key Features

- ✓ Known outcome
- ✓ Labeled data
- ✓ Direct feedback

Unsupervised Learning

Finding patterns in unlabeled data

Examples

- Customer segmentation
- Recommendation systems
- Anomaly detection

Key Features

- 🔍 Pattern discovery
- 🔍 Unlabeled data
- 🔍 Self-organized learning

Real-World Impact



Prediction Tasks

Majority of businesses leverage supervised learning for accurate predictions and decision-making



Customer Insights

Growing adoption of unsupervised learning for discovering customer patterns and behaviors



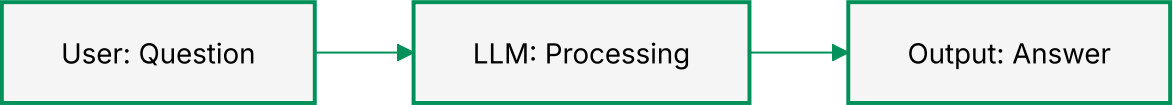
Efficiency Gains

Significant improvements in decision-making speed through ML automation

ChatGPT-based Chatbot

Transforming customer interactions with AI-powered conversations

How It Works



✓ Key Benefits

- 🕒 24/7 Availability
- ⚡ Instant Responses
- 🌐 Multilingual Support

⚠ Limitations

- 📄 Context Boundaries
- 🗄 Non-specific domain knowledge
- 🛡 Privacy Concerns

Sample Interaction

User: What is the capital of France?

ChatBot: The capital of France is Paris

Business Impact

😊 Customer Satisfaction

High satisfaction rates

⚡ Response Speed

Near-instant responses to customer inquiries

📈 Operational Efficiency

Reduction in operational costs

The Three Pillars of Generative AI

Understanding the core components that power modern AI systems



Prompts

The instructions that guide AI responses

Key Elements

- ✓ Clear Instructions
- ✓ Specific Details
- ✓ Desired Format



Context

The background information that shapes understanding

Components

- 🔄 Conversation History
- 📦 Knowledge Base



LLMs

Large Language Models that power the system

Capabilities

- 📖 Natural Language

How They Work Together

→ Prompts guide the LLM's response, while context ensures relevance and accuracy. Together, these pillars enable AI to generate human-like, contextually appropriate outputs.