

# Our Artificial Intelligence Capability

## Maximize ROI and Business Agility with AI-Powered Business Innovation

Artificial Intelligence is redefining how modern enterprises operate, innovate, and compete. Blue Altair is at the forefront, combining deep expertise in Generative and Agentic AI with proven AI-led delivery frameworks, robust data and integration foundations, and responsible AI governance. We empower our clients to move from strategy and experimentation to robust, scalable AI solutions embedded in core workflows, accelerating time-to-value, scaling automation, and building sustainable AI advantage. With our leadership, engineering depth, and execution discipline, we deliver measurable outcomes that turn AI ambitions into real business impact.

## AI Maturity Problem to Solve

Enterprises start with isolated proof-of-concept and experiments. But they struggle to scale to production and reap the benefits of AI because of lack of maturity in strategy, data foundations and governance. The following are some of the challenges that enterprises face:

- Lack of Clear AI Strategy and Business Alignment
- Fragmented Data Ecosystem
- Weak AI Governance and Responsible AI Practices
- Gap in AI-native culture and skills
- High cost of cloud and infrastructure

# AI Maturity Framework



## Level 1: Initial:

AI is opportunistic, siloed, and unaligned to business strategy. Limited data readiness, talent, and governance prevent meaningful outcomes.

## Level 2: Organized:

Pilots and PoCs emerge within functions. Interest is growing, but scaling is limited due to fragmented platforms, inconsistent data, and weak sponsorship.

## Level 3: Operational:

AI strategy, tooling, and governance are formalized. Data quality improves, early MLOps appears, AI moves to production with consistent and measurable value

## Level 4: Mature:

AI is embedded into enterprise workflows and operating models. High-quality data, automation, governance, and ROI accountability drive reliable business impact.

## Level 5: Industrialized:

AI becomes a strategic differentiator and business model enabler. Unified platforms, ethical-by-design governance, and enterprise AI literacy unlock innovation at scale.

## Blue Altair's AI Vision and Differentiators

Blue Altair is a trusted partner for its clients, helping them rapidly scale the heights of AI-driven success with its strategic AI vision and value-oriented differentiators

- Cloud-agnostic and API-first architecture philosophy
- Responsible and ethical AI by design
- Focus on enterprise scalability & safety
- Proven domain knowledge across industries
- Experienced consultants + engineering execution
- Partnership with Hyperscalers

# Our AI Services and Offerings

Blue Altair helps clients build AI solutions that align with their desired business objectives and take them from prototype to production. Based on where our clients are in their data and AI journey, we work closely with them to:

- Assess AI readiness and identify quick wins and strategic growth use cases.
- Assess AI maturity and define AI strategy for adoption at scale.
- Build a robust data foundation to power effective AI solutions.
- Build a framework for secure, unbiased, transparent, and explainable AI solutions.
- Implement pilots to evaluate the proposed solution's viability and potential impact.
- Fine-tune LLMs for specific industries using Blue Lab's cutting-edge R&D.
- Deploy autonomous AI agents to automate complex workflows and accelerate innovation.
- Scale prototypes to production with secure, industrialized MLOps and GenAIOps.

Our Artificial Intelligence capability focus areas include:

## AI Platforms, Tools & Tech Stack Expertise

- **LLM Ecosystem** – OpenAI, Azure AI Studio, GPT-4/5, Gemini, Claude, Llama, Mistral
- **Agentic AI** – LangChain, LangGraph, CrewAI, AutoGen, LlamaIndex
- **Data Engineering** – Databricks, Spark, Kafka, Delta Lake
- **Deep Learning** – CNNs, RNNs, Transformers
- **Natural Language Processing** – NLPs, LLMs and Chatbots
- **Computer Vision** – Image/Video recognition, object detection
- **Vector DBs** – Pinecone, Weaviate, Chroma, Qdrant, FAISS
- **MLOps and GenAIOps** – MLflow, Vertex AI, SageMaker, Azure ML, Weights & Biases
- **Responsible AI** – Explainability, bias detection, regulatory compliance

Our Artificial Intelligence expertise spans many domains solving key business problems:

- **Life Science and Pharmaceuticals:** Accelerating pharmacovigilance (adverse event processing), predictive drug adherence models, complex knowledge graphs for clinical research acceleration, and **AI agents for regulatory document synthesis.**
- **Finance & Insurance:** Proactive fraud detection, algorithmic portfolio optimization, automated credit risk scoring, intelligent information extraction, and **automated due diligence reporting via Generative AI.**
- **Retail and E-Commerce:** Dynamic pricing optimization, personalized product recommendation engines (increasing average order value), visual search for reduced returns, and **Generative AI for personalized marketing copy and 3D product visualization.**
- **Manufacturing and Operations:** Predictive maintenance (reducing downtime), sales forecasting, and **intelligent automation of end-to-end operational processes using Agentic AI workflows.**

# Addressing Complex Business Needs

We have helped businesses across industries adopt and execute large-scale data and AI projects. Here's a glimpse of the type of problems we've helped our clients address:

## Client 1

### Challenges

A multinational pharma company struggled with manual drug safety analysis for causality assessments and regulatory reporting. The manual processes were labor-intensive and slow.



### Our Solutions

Blue Altair automated data extraction and documentation for pharmacovigilance using NLP by combining business rules and embeddings to efficiently identify entities and assess causality.

### Impact

Blue Altair's automation solution delivered over 90% accuracy, streamlined Drug-Induced Liver Injury causality process, and saved two FTE-months per cycle, accelerating efficiency and regulatory compliance outcomes.

## Client 2

### Challenges

A multinational pharma company needed automation to accurately identify pregnancy cases from structured and unstructured data sources to replace manual, error-prone processes



### Our Solutions

Blue Altair leveraged Python, TF-IDF, and BERT to automate and accurately detect pregnancy case and integrated the results into Cognos BI for compliant reporting.

### Impact

The solution achieved over 95% accuracy in identifying pregnancy-related cases, enhancing pharmacovigilance quality by detecting gaps in existing processes.

## Client 3

### Challenges

An AI startup needed a secure, scalable platform to document assets for insurance, claims, and tax purposes while reducing fraud and improving valuation accuracy.



### Our Solutions

Blue Altair built an AI-powered asset intelligence platform that automates photo-verified asset documentation, cost segregation, and standardized reporting across insurance, tax, and audit workflows.

### Impact

The solution accelerated claims processing, reduced fraud risk, improved tax outcomes, and enabled scalable, audit-ready reporting—unlocking new revenue opportunities through partnerships.

## Client 4

### Challenges

A life sciences client struggled to extract insights from large volumes of confidential documents, making it slow and inefficient to find product and patient information.



### Our Solutions

Blue Altair developed a secure, RAG-powered internal chatbot that enables natural language querying of Databricks-hosted data using Azure OpenAI—without exposing sensitive information.

### Impact

The solution reduced analysis time from hours to seconds while ensuring secure, compliant access to confidential data across Medical, Commercial, and Security teams.

## Our Partnerships

At Blue Altair, we know that businesses require data-based insights to inform their sophisticated company needs. Data is at the core of decision making and insights that affect business operations. Our mission is to drive innovative solutions to keep business strategies ahead of the curve by adopting transformative technologies, streamlining technical capabilities, and maximizing ROI. Regardless of project size, we pride ourselves on delivering the best value for your investment. Blue Altair's biggest strength is our combination of integrity with excellence, and that's our commitment to you: results that exceed your expectations and earn your trust for future business needs.

### The Blue Altair Promise

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### About Blue Altair

Blue Altair is an innovative business and technology consulting firm that leverages transformative technologies to enable AI and drive digital success for its clients. We offer Assessment and Strategy, Technology Implementation, and Managed Services in API Management and Integration, Data Management, Digital Application Development, and Artificial Intelligence. Our Client Success capability ensures a higher-than-industry rate of successfully delivered projects, with a primary focus on program and project management, business analysis, and quality assurance. Blue Labs is our innovation hub, where we use cutting-edge technology to build offerings that deliver accelerators and solutions. Our culture is the heart of our existence, and our core values are the key drivers for our handpicked, top-tier performers.

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