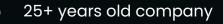


Intelligence Engineered.

About Our Company

At Mindfire Solutions, we solve complex challenges with customengineered software. We are a trusted technology partner for companies across the globe. Our agility, strong engineering culture, and focus on impact enable us to deliver tailored solutions with speed and precision.

From ground-up development to scaling and optimizing existing platforms, our cross-functional teams work seamlessly across the entire product lifecycle; spanning ideation, architecture, development, QA, automation, DevOps, and ongoing support.



650+ workforce

50
Technology Fast 50



500+ global clients

2000+ successful projects





Development Strategy



Business-Centric Approach

We prioritize understanding your business workflows, challenges, and opportunities to develop AI solutions that drive real value i.e. enhancing efficiency, unlocking insights, and enabling smarter decision-making.



Scalable and Maintainable Solutions

Whether you're expanding operations, handling increasing data volumes, or adding new use cases, our AI solutions are designed to adapt—delivering consistent performance and value without the need for constant reengineering.



Transparency and Ethics

We ensure that our solutions are explainable, fair, and aligned with our clients' values. From data handling to model behavior, we maintain clear communication and accountability.



Human-Al Collaboration

Our approach combines the efficiency of advanced Al technologies with the insight and intuition of human expertise, ensuring solutions that are not only intelligent but also practical, and user-centric..

Capabilities



End-To-End Expertise

Our team covers the entire Al lifecycle:

- Data Collection & Annotation
- Model Development, Fine-tuning & Evaluation
- Integration with Existing Systems
- Deployment, Monitoring, Retraining & MLOps



Technical Proficiency

Our engineers work hands-on with:

- Deep Learning (CNNs, RNNs, GANs, Transformers, LLMs, Diffusions)
- Machine learning (Supervised, Unsupervised, Time Series, Probabilistic Models)
- ML Frameworks (TensorFlow, PyTorch, Scikit-learn, ONNX)
- NLP (Embeddings, Vector Tools, Sequence Models)
- Cloud Al Platforms (AWS SageMaker / Bedrock, Azure Al Services, Google Vertex Al)
- MLOps Tools (MLflow, DVC, FastAPI, Docker, Kubernetes)
- Foundational Models (Hugging Face)

Our Core AI/ML Services

Computer Vision & Image Al

NLP & Language Intelligence

Predictive Analytics & ML Ops

Generative AI & Automation

Agentic AI & Autonomy

Voice, Audio & Speech Al

Computer Vision & Image Al

What We Do

We build systems that can interpret images and videos to solve real business problems

Use Cases

- Product detection in images for e-commerce
- Document scanning and data extraction
- Real-time quality checks using camera feeds
- Virtual try-on solutions for retail
- Medical image analysis for diagnostics

- Reduces manual validation effort
- Speeds up operations where visual inputs are key
- Enables automation at scale in physical environments

NLP & Language Intelligence

What We Do

We build AI systems that can read, understand, and respond to human language—structured or unstructured.

Use Cases

- Chatbots for customer support and internal queries
- Document summarization and auto-tagging
- Resume parsing for recruitment platforms
- Intelligent search across large knowledge bases
- LLM-based insight generation from reports

- Cuts down response time and manual work
- Unlocks value from unstructured data
- Enables better decision-making from large volumes of text

Voice, Audio & Speech Al

What We Do

We develop AI systems that understand, process, and analyze voice data in real time or from recordings.

Use Cases

- Speech-to-text and text-to-speech for multilingual apps
- Voice command systems for hands-free operations
- Speaker identification and authentication
- Call center analytics and sentiment tagging
- Audio-based feedback classification

- Makes voice data searchable and actionable
- Enables automation in call-heavy workflows
- Improves customer insights from support interactions

Generative Al & Automation

What We Do

We use LLMs and generative models to automate content creation, summarization, and complex data interactions.

Use Cases

- Generated product descriptions, price guide, and reports
- Meeting summarizers and follow-up action generators
- Prompt-based Q&A systems for enterprise knowledge base
- Code generation assistants for internal tools
- RAG pipelines for context-aware AI output

- Speeds up knowledge work
- Reduces content production costs
- Makes internal systems smarter and easier to use

Agentic Al & Autonomy

What We Do

We build intelligent agents that can sense, decide, and act autonomously —pursuing goals, adapting to feedback, and operating with minimal human intervention.

Use Cases

- Service customer queries seamlessly using multi-agent orchestration
- Driving vision test with Al-assisted refractionist
- Building proposal documents via a multi-tool orchestration framework
- Al-driven testing by generating test cases, scripts, and executing tests automatically.
- Multi-agent collaboration through connected knowledge bases.

- Reduces dependency on human agents for routine support
- Ensures faster, consistent, and context-aware customer resolutions
- Enables round-the-clock service through intelligent agent collaboration

Predictive Analytics & ML Ops

What We Do

We design and deploy models that analyze historical data to predict what's likely to happen next and ensure they stay reliable in production.

Use Cases

- Demand forecasting for inventory and sales
- Customer segmentation for personalized campaigns
- Risk scoring in finance and insurance workflows
- Churn prediction for SaaS and subscription models
- Anomaly detection for fraud and system monitoring

- Enables proactive decision-making
- Reduces losses from unexpected trends
- Keeps predictive models accurate and accountable



Al-based Cost Estimation from HVAC Symbols

Developed an Al-powered solution that automates the extraction of HVAC symbols from schematic diagrams and estimates costs using a machine learning pipeline. The system streamlines manual interpretation, reducing human error and accelerating the quotation process.

Scope of Work

Automate symbol recognition and link it with historical costing data to deliver near-instantaneous HVAC estimates.

Impact

Reduced quote generation time and enabled accurate, scalable cost predictions for complex HVAC projects.





Al Roof Visualization Tool for Construction

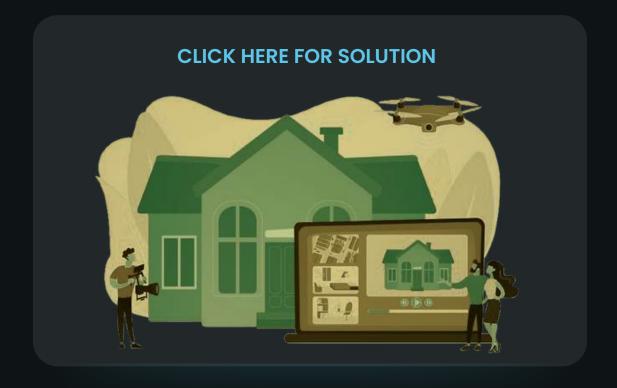
Developed an Al-powered visualization tool for photorealistic roof previews. Using models like YOLO, Mask R-CNN, and Grounding DINO, it detects roof areas and overlays shingle textures.

Scope of Work

Automate roof detection and enable realistic shingle overlays through advanced segmentation, extrapolation, and perspective warping techniques.

Impact

Streamlined the roofing material selection process, increased customer engagement, and reduced manual effort and design cycle time for contractors.





Deep Learning based Virtual Try-On for Apparel

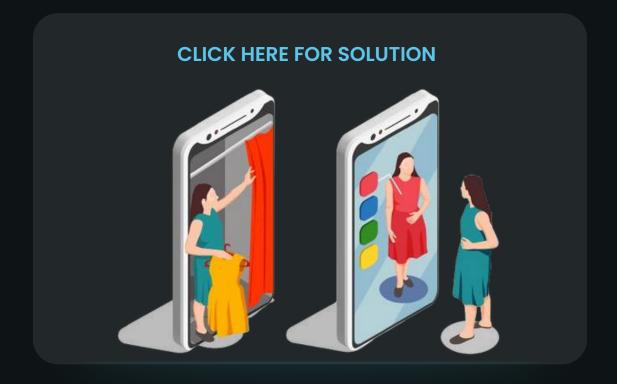
Built a deep learning solution enabling users to virtually try on clothing, enhancing online purchase decisions. Using GANs and UNET architectures, the system overlays garments on a fixed avatar with high realism.

Scope of Work

Developed a GAN-based virtual try-on pipeline to swap high-resolution garments onto avatars, with customized training optimization to reduce processing time.

Impact

Enabled faster decisionmaking for shoppers and reduced return rates, delivering high-quality, scalable try-on experiences for apparel retailers.





RAG-Based Chatbot to Boost Efficiency

Implemented a Retrieval-Augmented Generation chatbot integrating open-source LLMs and vector databases like FAISS and Chroma for enterprise-grade search and assistance. It delivers real-time, context-aware, and source-linked responses.

Scope of Work

Build a configurable RAG framework using Langchain and FastAPI to power intelligent, multidomain chat experiences.

Impact

Increased employee productivity by enabling instant access to distributed knowledge, reducing dependency on human experts.





Al Search Assistant for Complex Government Websites

Built a custom Al-powered search assistant for complex government websites to simplify navigation and information retrieval. By training the chatbot on site-specific content using LangChain and vector embeddings, users receive accurate, contextual answers from vast data sources.

Scope of Work

Train an AI chatbot to crawl, index, and retrieve content from entire government websites and documents, with contextual search and real-time query resolution.

Impact

Enhanced user satisfaction by delivering accurate, document-level responses; improved accessibility to complex government content and reduced search friction.





AI-Powered Redaction Tool

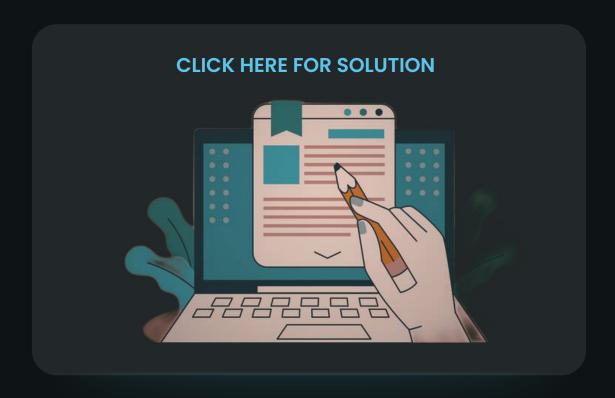
Built a secure, Al-based redaction tool to automate the removal of sensitive data from PDFs and images. Designed for financial, insurance, and healthcare firms, the platform supports both cloud and on-premise deployment.

Scope of Work

Developed an OCRenabled redaction API using FastAPI, integrated with Google Vision and Tesseract, scalable via Docker and Kubernetes

Impact

Streamlined large-scale redaction workflows, improved compliance, and enabled flexible, secure document processing across regulated industries.





AI-Powered Finance Chatbot

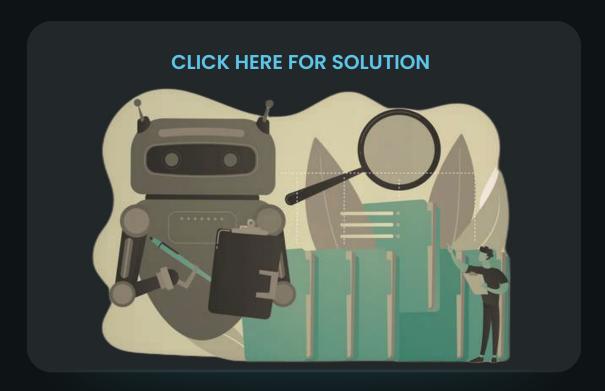
Developed a finance-specific AI chatbot using OpenAI APIs and LangChain to extract answers directly from internal PDFs. The chatbot reduces search time by 90%, eliminating the need for users to navigate multiple pages.

Scope of Work

Built an LLM-based chatbot powered by OpenAl embeddings and vector DBs (FAISS/Chroma) to query and respond using only client-provided financial documents.

Impact

Accelerated information retrieval, enhanced customer experience, and reduced manual effort for financial data access across the client's digital platforms.





Color Correction Application for Fashion Publishing

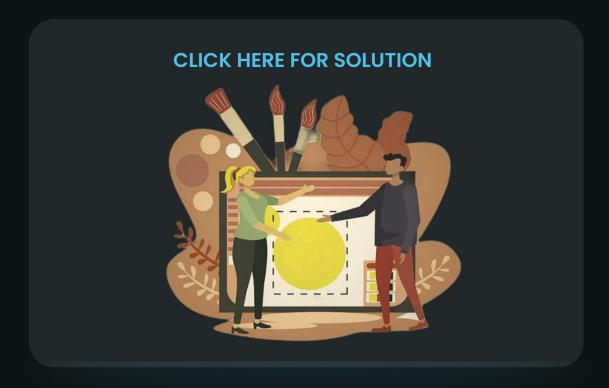
Developed a web-based tool that automates color correction of clothing images using OpenCV and Photoshop APIs. It eliminates manual Photoshop work, ensuring consistent and accurate color representation at scale.

Scope of Work

Built a Django-React app integrated with Dropbox, OpenCV, and Photoshop APIs to batch-process and auto-correct clothing image colors using laydown references.

Impact

Accelerated information retrieval, enhanced customer experience, and reduced manual effort for financial data access across the client's digital platforms.





Google Analytics - Al Scorer

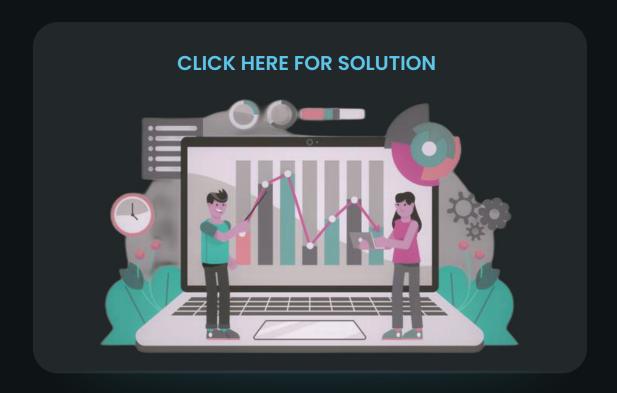
Developed a cloud-native AI scoring system using GCP, PyTorch, and BigQuery to evaluate and rank site visitors based on behavioral signals. It predicts conversion potential, enabling smarter ad targeting.

Scope of Work

Build an AI engine that consumes GA data, transforms it, and applies classification models for audience scoring.

Impact

Empowered marketing teams to optimize campaigns, boosting ROI through precision targeting.





Deep Learning Induced Background Matting

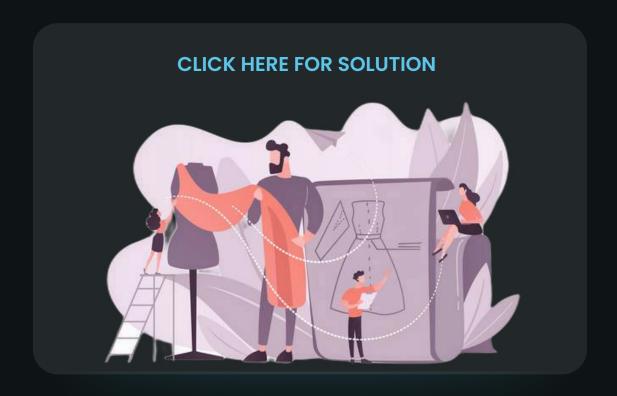
Engineered a custom image matting model using PyTorch and OpenCV to remove mannequin backgrounds while preserving high-fidelity edge details, enhancing product visuals.

Scope of Work

Apply deep learning techniques to automate ghost mannequin effects for fashion/eCommerce visuals.

Impact

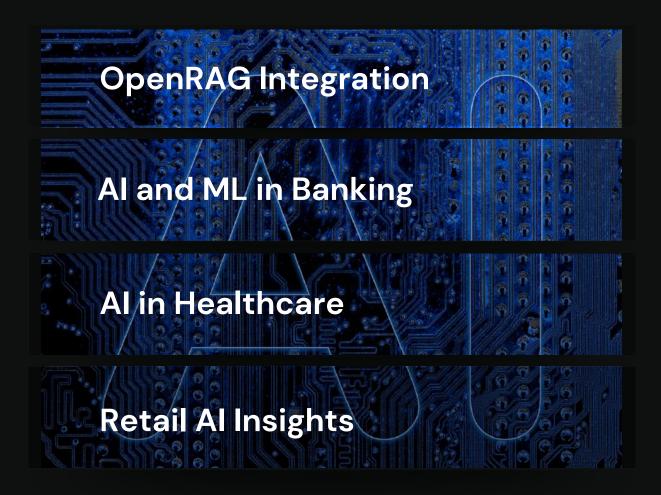
Reduced post-processing time for image editing teams while improving visual output for product listings.



Blog Library

Explore our collection of QA and testing blogs — Real-world insights, best practices, and industry-specific solutions.

CLICK A CATEGORY TO DIVE IN



Security, Ethics & Governance



Data Security

- We follow strict data handling protocols: encryption, anonymization, access control.
- Cloud deployments comply with enterprise-grade standards.



Responsible Al

- Every model we build is auditable.
- Bias checks, test coverage, and human validation are built into our workflow.
- We never deploy black-box systems where risk is high.



Compliance & Control

- Support for GDPR-ready data workflows.
- Clients retain ownership of data, models, and results.
- We document every major decision—model choice, dataset, evaluation logic.

Client Testimonials

Hear directly from our clients on our quality, collaboration, and reliability. These testimonials reflect the trust and value we deliver through every engagement, across industries and project complexities.

"We were able to instantly on-board ultrahigh quality QA engineers with low risk and high cooperation."

Erik Fogg





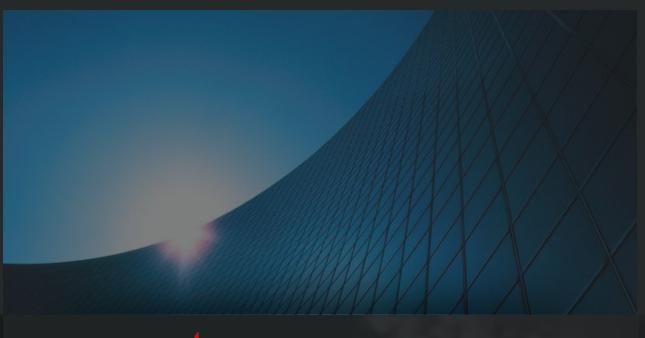
"They have been professional, conscientious, timely and strive to provide quality work."

Patrick Ashworth

"Mindfire's IT and project support team is fantastic, approachable, and always on tap for discussion and input."

Howie Jones







Office Locations - India, USA

Noida (North India)

C/o ETHEREA 19th Floor, 1921, Tower B, Alphathum, Plot No. 1, Sector 90 Noida – 201305, UP, India

USA Sales Office

1890 Crooks, Suite 340 Troy, MI -48084 Phone: +1 248.740.0611

Bhubaneshwar (East India)

C/O - Awfis Space Solutions Private Limited, SRB Tower, 1st floor, E- 12, Infocity Area, Patia, Bhubaneswar – 751024, Odisha, India.

Contact Sales

US East Coast: +1 248.686.1424

US West Coast: +1 248.631.4210

sales@mindfiresolutions.com