ZENESYS

AI & DIGITAL TRANSFORMATION

Engineering intelligent solutions that turn AI capabilities into measurable, production -ready business outcomes.



Created For:
Company Name

Created by:
Zenesys Technosys Pvt. Ltd.

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AI Capability Proof

From AI components to production-grade workflows

A client-ready portfolio of demonstrated capabilities across GenAI, agents, document intelligence, predictive ML, analytics, multimodal AI and AI product engineering.

A portfolio of demonstrated capabilities across:

- GENAI
- AGENTS
- DOCUMENT INTELLIGENCE
- PREDICTIVE ML
- ANALYTICS
- MULTIMODAL AI

WHAT THIS DECK PROVES

1. AI embedded inside real business workflows
2. Multi-agent orchestration with human controls
3. Predictive ML, validation and explain ability
4. End-to-end product engineering & deployment

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Executive Perspective

THE EVIDENCE POINTS TO ONE CORE STRENGTH

Zenesys combines AI engineering with the software engineering required to make AI usable, controlled and scalable.

NOT JUST MODEL INTEGRATION

The portfolio demonstrates capability across the full solution chain - from data and models to applications, workflows and production delivery.

01

INTELLIGENCE

LLMs, RAG, multimodal AI, predictive ML and explain ability

02

ORCHESTRATION

Agents, validation, business rules and human-in-the-loop control

03

PRODUCTIZATION

APIs, applications, dashboards, integrations, QA and deploy

SELECTED PROOF POINTS

6
AI solution / product examples

94.4%
Accuracy in explainable ML proof

31%
OEE improvement in deployed Optima Nexus

7
Specialized agents in prior-auth workflow

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Capability Architecture

AN END-TO-END AI ENGINEERING STACK

Ten capabilities span intelligence, knowledge, decision support, automation and product engineering.

INTELLIGENCE	Generative AI & LLM Applications	Predictive Machine Learning	Multimodal AI	Explainable AI
KNOWLEDGE	Document Intelligence		RAG & Knowledge Intelligence	
DECISION & AUTOMATION	AI Agents & Multi-Agent Systems	AI Analytics & Decision Support	Intelligent Automation	
PRODUCT ENGINEERING	AI Product Engineering			

Design principle: AI is combined with application engineering, data, business rules, integrations, UX and controls — not treated as a standalone model.

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Proof Portfolio

SIX EXAMPLES, SIX FORMS OF EVIDENCE

Spanning workflow AI, GenAI, multi-agent systems, predictive ML, operational analytics and AI-native product engineering.

01 WORKFLOW AI

CredX

Document processing + rules + AI + ERP automation

02 GENAI / RAG

Document-Intelligent AI Chatbot

Document & URL ingestion + contextual Q&A

03 MULTI-AGENT AI

AI Prior Auth Copilot

Specialized agents + validation + human review

04 PREDICTIVE ML

Early AIzheimer's Risk

Benchmarking + validation + SHAP explainability

05 DEPLOYED AI ANALYTICS

Optima Nexus

Real-time KPIs + predictive decision support

06 AI PRODUCT ENGINEERING

Obj3ct Collector

Vision + embeddings + search + mobile product

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CredX | Controlled financial workflow

Case Study -1

Enterprise expense management focused on reducing manual settlement reconciliation.

Workflow

01	02	03	04	05	06
Capture receipt	Extract & score	Apply rules + AI	Approve	ERP integration	Payment confirmation

Engineering Evidence

1. AI-assisted document / receipt processing
2. Rules + AI operating together in a controlled workflow
3. Immutable audit ledger for approvals
4. ERP integration and downstream automation

Why it matters

Shows how Zenesys moves beyond a chatbot into a complete business process:

CAPTURE | VALIDATE | SCORE | APPROVE | INTEGRATE

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AI Prior Auth Copilot

Case Study -2

A document-heavy workflow decomposed into specialized AI roles with human-in-the-loop controls.

01
Document Reader
Extract structured information

02
Coding / Class
Identify standardized classifications

03
Policy Valid.
Check requirements against policy

04
Missing Info
Identify gaps / supporting documents

05
Summary
Create structured summaries

06
Recommend
Recommend next workflow step

CAPABILITY PROOF: Complex process decomposition + orchestration + validation + human oversight.

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Explainable AI | Alzheimer's Prediction

Case Study -3

Research-grade machine learning and explainability, developed with IIT Delhi.

94.4%
Accuracy

0.95
ROC-AUC

90.1%
Sensitivity

96.8%
Specificity

What the engineering demonstrates

1. Benchmarking across Logistic Regression, Random Forest, SVM and XGBoost
2. Nested cross-validation designed to reduce overfitting
3. SHAP-based explanations at global and individual levels
4. Deployed model for instant risk assessment

The Signal

This is evidence of deeper AI/ML engineering — model selection, statistical validation, explain ability and deployment.

Delivery Model | From AI idea to production

A structured lifecycle designed to reduce technical risk and validate the highest-value workflow early.

01

DISCOVER

Business objective, users, data, success criteria

02

DESIGN

Select the right pattern (LLM, RAG, agents, ML)

03

PROTOTYPE

Validate the highest-value workflow with a POC

04

ENGINEER

Build application, APIs, prompts, integrations

05

VALIDATE

Test AI quality, edge cases, explainability

06

DEPLOY

Release into environment with monitoring

07

IMPROVE

Use feedback & data to continuously improve

CORE DIFFERENTIATOR

AI engineering + Product Engineering

The goal is not only a model that generates an answer — it is a solution that performs a task.

Client Conversation | Where Zenesys can create value

Use the capability proof to move from a generic AI discussion to a concrete business workflow.

01 Identify the workflow

Where is work manual, repetitive, document-heavy, decision-heavy or data-intensive?

02 Choose the AI pattern

LLM, RAG, agents, predictive ML, multimodal AI — or a combination.

03 Prove value early

Prototype the highest-value workflow and define measurable acceptance criteria.

04 Engineer for production

Integrate data, applications, controls, security, UX and operational monitoring.

NEXT STEP

Select one high-value workflow

→ define a focused proof of concept

→ validate → scale.

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CONTACT US

Let’s Launch Your Idea!



Contact us

Email Address

sales@zenesys.com | info@zenesys.com

Phone Number

+1 (346) 595-2886 | +91 (120) 429-6281

Website

https://www.zenesys.ai/