

DEEPAK PAI

Turning complex data into business outcomes.

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17+

YEARS LEADING

16

INDUSTRY CREDENTIALS

F500

ENTERPRISE SCALE

\$75M+

CUMULATIVE VALUE DELIVERED

01 EXECUTIVE PROFILE

Executive leader with 17+ years building credible outcomes for enterprises — scaling engineering organizations, data platforms, and strategy functions.

02 EXPERIENCE SNAPSHOT

Senior Engineering Leader

2011 — Present

Fortune 500 Financial Services Enterprises · United States

- Data and AI Strategy
- Enterprise Data Platform Leadership
- AI Product Management
- Information Governance & Compliance

03 SELECTED IMPACT

LENDING PLATFORMS

\$30M · platform overhaul

Led a \$30M lending platform overhaul, boosting processing capacity 60%, enabling real-time transactions for 10M+ customers, and launching 15 new credit products.

DATA GOVERNANCE

2,000+ · CDEs governed

Stood up an Information Governance CoE governing 2,000+ Critical Data Elements, improving governance maturity 40% and driving \$5M in cost savings.

CLOUD ARCHITECTURE

40% · infra cost cut

Executed terabyte-scale cloud migration to AWS for a top-20 global bank, cutting infrastructure costs 40% while establishing a scalable governance framework.

COST REDUCTION

\$45M+ · cost reduction

Delivered \$45M+ in cumulative cost reductions and lowered compliance expenditures 25% through a strategic credit risk framework targeting fraud and financial crime.

ENGINEERING EXCELLENCE

95% · team retention

Directed geographically distributed teams of 30+ engineers, architects, PMs, and DevOps professionals across Fortune 500 programs, maintaining 95%+ retention.

04 **VENTURES & PRODUCTS**

Prop Wizard

AI-driven investment strategy for real estate investors.
PRODUCT · AI · ML · CLOUD NATIVE

43% · Avg investor ROI lift · 3,400+ users

Enterprise Data Lake

Scalable architecture processing petabytes of financial data.
AWS · SPARK · KAFKA · ML

1.2PB · Curated · 40% faster time-to-insight

Credit Risk Predictor

Real-time credit risk assessment and fraud detection models.
PYTHON · TENSORFLOW · MLOPS · REALTIME

\$12M · Annual fraud loss avoided · 98.6% precision

05 **PUBLICATIONS, JUDGING & TALKS**

- 01 Audit-Ready Fraud Detection: Aligning Gradient Boosting and SHAP with GDPR and SOX Compliance
IEEE CONFERENCE · 2026
- 02 Extending TMMi for FinOps: A Test Maturity Framework for Cloud Cost Governance
IEEE CONFERENCE · 2026
- 03 ML for Student Dropout Prediction: Algorithmic Performance, Interpretability, and Fairness in East African Secondary Schools
IEEE CONFERENCE · 2026
- 04 FEMS-TTC-PPM: Multi-Layered AI-based Governance Framework for Financial Institutions
IEEE CONFERENCE · 2026
- 05 Prompt Engineering Frameworks for Generative AI in Credit Analysis
KEYNOTE · AICCT 2025
- 06 Scholarly Article Review contributor
ELSEVIER · 2025
- 07 Judge — Fierce AI Innovation Awards
JUDGE · FIERCE LIFE SCIENCES & QUESTEX · 2026
- 08 Session Chair — ICDSA 2026 Conference
SESSION CHAIR · ICDSA 2026

06 **EDUCATION**

M.S. Information Technology Management
Illinois Tech · Chicago, IL

B.E. Computer Science Engineering
CMRIT · Bengaluru, India

2011

2007

07 **CREDENTIALS (12)**

- 01. Senior Member, IEEE
- 02. Certified Data Management Professional (CDMP)
- 03. AI Product Manager: Capstone Winner
- 04. SAFe 6.0 Product Owner
- 05. AWS Certified Solutions Architect (SAA-C02)
- 06. AWS Partner: Generative AI Essentials
- 07. AWS Certified Cloud Practitioner (CLF-C01)
- 08. IBM Watson Orchestrate
- 09. IBM Enterprise Design Thinking Practitioner
- 10. IBM Banking / Insurance Industry Solutions
- 11. PMI Agile Certified Professional (PMI-ACP)
- 12. IBM Certified Solution Developer: DataStage V11.3