

# Decision Science Group

## Capability Statement

We deliver production-ready analytics, machine learning, and AI systems that improve decisions and automate workflows. Our focus: measurable business outcomes, secure engineering, governance, and monitoring.

### Core Services

---

- Data strategy & roadmaps; KPI design
- Data engineering (batch/streaming), quality, semantic layers
- Dashboards & BI (executive + operational)
- Predictive modeling (classification/regression), forecasting
- Optimization, simulation, and decision science
- RAG assistants, enterprise semantic search
- Agentic workflow automation (tool-using agents)
- MLOps/LLMOps: CI/CD, evals, drift monitoring, retraining
- AI governance: model cards, guardrails, privacy & security

### Delivery Approach

---

- Discover: goals → KPIs → constraints
- Diagnose: data audit + feasibility
- Build: prototype → production (APIs/dashboards/agents)
- Operate: monitoring, drift, eval regression, iteration

### Common Solutions

---

- Demand forecasting + scenario planning
- Predictive maintenance + anomaly detection
- Churn prediction + uplift interventions
- Fraud & risk scoring modernization
- Support automation (summaries, routing, QA)
- Reporting agents (auto-briefings)
- Policy assistants with citations and eval harnesses

### Engagement Models

---

- Rapid assessment (1–2 weeks)
- Fixed-scope build (2–10+ weeks)
- Retainer (MLOps/LLMOps + iteration)
- Fractional DS/ML leadership & training