

# STAMATIS KAVIDOPOULOS

## AI Innovation Lead | Senior AI Engineer

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**Citizenship:** Greek / Canadian

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## PROFESSIONAL SUMMARY

Experienced AI Engineer with 5 years in production AI/ML systems, specializing in agentic AI architectures and multi-agent frameworks since their emergence. Proven expertise in LLM integration, RAG frameworks, and enterprise data intelligence. Strong background in transitioning from traditional ML systems to autonomous AI agents that reason, plan, and act within complex data environments.

**Core Strengths:** Agentic System Design • Multi-Agent Architectures • LLM Integration & Prompt Engineering • Enterprise Data Intelligence • Production AI Deployment

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## PROFESSIONAL EXPERIENCE

### AI Innovation Lead | Pfizer Inc. | July 2025 – Present

- **AI Strategic Vision Development:** Leading enterprise-wide AI strategy formulation, defining agentic AI adoption frameworks and establishing multi-agent system architecture standards for deployment across 12+ business units
- **Executive AI Leadership:** Directing strategic partnerships with C-suite and departmental leadership to develop AI governance frameworks, driving organizational alignment on autonomous agent implementation and enterprise risk management
- **Technology Portfolio Strategy:** Evaluating and architecting next-generation agentic AI platform strategies (LangGraph, CrewAI, Autogen), leading technical due diligence for strategic technology investments and vendor partnerships
- **Innovation Center of Excellence:** Establishing strategic frameworks for agentic AI systems evaluation, developing enterprise-level performance metrics and ROI models to guide organizational AI transformation initiatives

## **Manager, AI Innovation Engineer | Pfizer Inc. | May 2024 – July 2025**

- **Multi-Agent System Deployment:** Architected production agentic AI systems with semantic context handling and multi-step execution pipelines, achieving 30% operational efficiency improvement with robust monitoring loops
- **Agent Memory & Tool Orchestration:** Built scalable Python modules for agent planning, reasoning, and tool coordination, implementing retrieval-augmented generation workflows that reduced manual processing by 75%
- **Cross-Functional Integration:** Collaborated with Legal, Finance, and Operations teams to implement intent classification systems, delivering measurable ROI through automated multi-intent agent workflows

## **Manager, Data Science | Pfizer Inc. | June 2023 – May 2024**

- Spearheaded business transformation initiative through Next Best Action (NBA) analytics across 10+ Business Units, driving strategic alignment and resulting in 20% improvement in customer engagement metrics
- Identified key business pain point and led development of innovative Natural Language-to-SQL (NL2SQL) solution using Generative AI and Snowflake, reducing data extraction time by 50% while ensuring compliance with healthcare data regulations
- Transformed patient care approach by leading cross-functional teams in developing Digital Patient Twins using Real-World Evidence (RWE) data, demonstrating ability to execute complex use cases with measurable clinical impact

## **Data Science Senior Associate | Pfizer Inc. | October 2020 – May 2023**

- Leveraged advanced statistical analyses and Generative AI techniques to identify intricate patterns and trends within complex datasets, resulting in a 25% increase in data-driven decision-making.
- Successfully developed and deployed more than 5 end-to-end Recommender Systems in production, employing robust data engineering, exploratory data analysis (EDA), and MLOps. Not only enhanced operational efficiency by streamlining processes but also resulted in a 30% improvement in model deployment efficiency.

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## **TECHNICAL COMPETENCIES**

### **Agentic System Design & Implementation**

- **Multi-Agent Frameworks:** LangGraph, LangChain, LlamaIndex, AutoGen, CrewAI
- **Agent Architecture:** Goal decomposition, semantic context handling, Reflection, Orchestrator, Agentic Patterns

- **System Coordination:** Agent memory, planning modules, reasoning logic, tool orchestration

## LLM Integration & Prompt Engineering

- **LLM Technologies:** OpenAI APIs, Azure APIs, Anthropic APIs, Hugging Face Transformers, multimodal foundation models
- **Prompt Engineering:** Dynamic prompt design, contextual embedding strategies, few-shot optimization, meta-prompting
- **Agent Reasoning:** Real-time planning, code generation, token context management, context engineering

## Enterprise Data Agent Intelligence

- **Data Integration:** Enterprise data warehouses (Snowflake, Aurora, Redshift), retrieval-augmented generation
- **Semantic Systems:** Domain-agnostic semantic layers, vector databases, tool-use logic
- **Agent Explainability:** Reasoning path articulation, decision transparency, tracing

## Production AI Deployment & Infrastructure

- **Cloud Platforms:** AWS serverless agent architectures
- **MLOps:** Agent versioning, automated testing, CI/CD
- **Programming:** Python (advanced), SQL, API development, asynchronous execution

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## EDUCATION

**Master in Business Administration (MBA) | University of Macedonia | 2023-2024**

**Focus:** Strategic Management & Digital Transformation

**Specialization:** Agentic AI Systems for Financial Data Analysis and Predictive Modeling

**MEng in Mechanical Engineering | Aristotle University of Thessaloniki | 2014-2020**

**Relevant Coursework:** Statistics, Optimization, Systems Analysis, Process Automation

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## CERTIFICATIONS

**Certified Scrum Product Owner (CSPO®) | Scrum Alliance | 2023**

**Dataiku Professional Certifications | 2022 - Core Designer, ML Practitioner, Advanced Designer, Developer**

**Deep Learning Specialization & TensorFlow Developer | Stanford/Google | 2021**

**Languages:** Greek (Native), English (Professional - C2), German (Basic - A1)