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Comprehensive GenAI Product Manager Curriculum with Detailed Demo Examples

Based on your attached files, I've created a comprehensive 16-week curriculum that integrates strategic GenAI product management knowledge with hands-on demonstrations. This curriculum is specifically designed for experienced technology professionals transitioning into senior GenAI Product Manager roles.

Key Features of This Curriculum:

Four-Phase Learning Structure

Phase 1: Foundation & Technical Architecture (Weeks 1-4)

- GenAI fundamentals with enterprise LLM cost analysis demos
- Vector databases and semantic search implementations
- RAG architecture with multi-agent pipeline orchestration
- AI infrastructure and MLOps with banking-grade observability platforms

Phase 2: Advanced Applications & Business Integration (Weeks 5-8)

- Data governance with real-time lineage tracking systems
- Multi-agent financial risk assessment platforms
- Cost optimization through semantic caching (40-60% cost reduction)
- Data quality orchestration with automated remediation

Phase 3: Enterprise Deployment & Strategic Implementation (Weeks 9-12)

- Model registry and governance with automated workflows
- Regulatory compliance and AI ethics monitoring
- Customer experience optimization for banking environments
- Cross-platform integration with cost optimization engines

Phase 4: Advanced Specialization & Portfolio Development (Weeks 13-16)

- AI-driven log intelligence with 85% false positive reduction
- Natural language business intelligence systems
- GenAI SDK development with adoption tracking
- Capstone project integrating all learned concepts

Industry-Specific Preparation Tracks

The curriculum includes specialized tracks for:

- **Microsoft**: Azure integration, Copilot architecture, enterprise security
- **Google**: Vertex AI, BigQuery, billion-user scalability
- **Apple**: Privacy-first approach, on-device processing, federated learning
- **Qualcomm**: Edge computing, mobile optimization, hardware-software co-design

Measurable Business Outcomes

Every demo includes specific ROI metrics:

- **Cost Savings**: $50K+ annual savings through semantic caching
- **Performance Improvements**: 3x performance gains, sub-100ms response times
- **Operational Efficiency**: 70-90% reduction in manual processes
- **Compliance**: 99%+ audit trail completeness for regulated industries

Assessment Framework

- **Weekly Technical Demos** (40%): Live demonstrations of implemented solutions
- **Business Case Presentations** (30%): ROI analysis and stakeholder communication
- **Portfolio Development** (20%): Progressive, interview-ready portfolio building
- **Peer Reviews & Collaboration** (10%): Code reviews and knowledge sharing

This curriculum bridges the gap between technical expertise and strategic product thinking, preparing you for senior GenAI Product Manager roles at top-tier technology companies while leveraging your existing experience in banking, AI observability, and enterprise systems architecture.

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