

Abdul Muheeth Mohammed

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AI Product Manager | 13 years bridging research and product | LLMs, RAG, Knowledge Graphs, and Generative AI Systems | Building frontier AI products that scale to millions

TECHNICAL SKILLS

AI/ML: LLMs • RAG Pipelines • Agents • Vector Databases (Pinecone, FAISS) • Prompt Engineering • Fine-tuning • Model Evals • AI Safety & Explainability
Frameworks: TensorFlow, PyTorch, Hugging Face, LangChain
Data: Python, SQL, Pandas, scikit-learn
Infrastructure: AWS, Azure, MLOps, A/B Testing
Product: 0→1 Product Development • Research-to-Prototype • Roadmaps • Experimentation • Stakeholder Alignment

EXPERIENCE

The Walt Disney Company | Senior AI Product Manager | Jun 2024 – Present

- Led research-to-production development of personalization engine using contextual bandits + embeddings, scaling to 70M+ users with \$125M incremental revenue.
- Built LLM-powered itinerary planner prototype integrating RAG pipeline (Genie+ APIs + weather + NLP intent extraction).
- Shipped multimodal NLP chatbot leveraging entity extraction, dialogue management, and few-shot prompts; achieved 85%+ self-serve resolution.
- Partnered with AI research to design model eval framework for ranking algorithms → 40% improvement in recommendation precision.
- Deployed real-time ML inference orchestration (AWS Lambda + feature store) for adaptive recommendations; cut latency 60%.

Capital One | Sr. AI/ML Product Manager – TDM OneSource | May 2023 – Jun 2024

- Productized synthetic data generator using GANs + VAEs → accelerated research sandboxes for AI safety testing (60% provisioning ↓).
- Designed LLM-based auto-tagging agent to classify data assets using transformer embeddings; improved data discovery by 90%.
- Built MLOps evaluation layer (model versioning, metadata governance, automatic retraining triggers).
- Partnered with AI research to prototype differential privacy metrics for synthetic data compliance.

S&P Global (IHS Markit) | Sr. Product Manager, AI Product Development – Project Ultraviolet | Nov 2021 – May 2023

- Drove 0→1 launch of enterprise knowledge graph platform using Graph Neural Networks + BERT embeddings → 70% faster data insights.
- Built semantic search engine using vector DB (Pinecone) + retrieval-augmented generation (RAG) for internal knowledge retrieval.
- Introduced AI explainability layer (SHAP, LIME, metadata tagging) → 40% trust score ↑ during enterprise AI audits.
- Led 50+ customer demos + researcher workshops to align frontier ML research with product strategy; enabled multi-million ARR expansion.

Wells Fargo | Lead Product Manager – Credit Card AI Experiences | Aug 2021 – Jun 2022

- Collaborated with data science to experiment with behavioral embeddings for personalization.
- Developed A/B testing evaluation system for credit UX ML ranking → 15% conversion ↑.
- Embedded AI safety checks into personalization metadata pipeline to ensure explainable targeting.

Virtusa (JPMorgan Chase) | Lead Product Consultant | Jul 2021 – Nov 2023

- Partnered with research engineers to prototype model performance dashboards for ML optimization.
- Developed metadata schemas and feature lineage tracking → improved model transparency.

- Created developer AI tools (prompt generator, model monitor Chrome extension) → 40% feature velocity ↑.

AlixPartners | Senior Business Analyst – AI Data Foundations | Apr 2020 – Apr 2021

- Built metadata architecture for ML-ready data lakes on Azure enabling predictive analytics.
- Designed data lineage + governance layers for AI model compliance and safety audits.

Amazon | Senior Associate – Transaction Risk (Fraud Detection ML) | Nov 2014 – Aug 2015

- Shipped fraud detection ML platform using logistic regression + random forests; 95% recall, 25% false positives ↓.
- Built real-time feature pipelines (velocity, device fingerprinting) → supported marketplace launch.

Google | Senior Business Analyst – Ground Truth ML | May 2012 – Oct 2014

- Managed computer vision ML training data for segmentation and object detection → 95%+ labeling accuracy.
- Automated data validation pipeline (SQL/Python) → 40% faster annotation cycles.
- Supported research-to-production transfer for image models powering Google Maps.

PROJECTS

- AI Ride-Sharing Platform – Prototyped LLM + RAG-driven assistant for route queries, LSTM demand forecasting, and RL dynamic pricing.
- Knowledge Graph for Transport Optimization – Graph-based route planner using NetworkX, integrated semantic embeddings for station similarity.

EDUCATION

Osmania University, India — B.E., Information Technology
Founder & President, IT-Talent Club