ARYA TEJA RUDRARAJU

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Work Authorization: F-1 OPT (valid through July 2028)

SUMMARY

AI Product Manager with 2+ years shipping AI products from 0→1. MBA/Analytics foundation with hands-on engineering—150+ user interviews, Amplitude analytics infrastructure, 6 shipped products. Expert in translating AI/ML capabilities (LLMs, RAG, model deployment) into product requirements, roadmap planning, and cross-functional collaboration with engineering, design, and data science teams.

PROFESSIONAL EXPERIENCE

AI Product Manager — Pilvi Systems – B2B AI Automation Consulting   Aug 2025 – Present
- Shipped 3 AI automation MVPs in 8 weeks; conducted 15+ customer discovery interviews and competitive analysis across AI platforms (IBM Watson, AWS SageMaker, Azure ML) to validate product-market fit
- Established Amplitude analytics infrastructure: defined event taxonomy, instrumented conversion funnels, built KPI dashboards; improved user activation rate from 22% to 41%
- Led sprint planning, backlog grooming, retrospectives using Jira/Confluence; architected multi-agent workflows (MCP/ACP, FastAPI, N8n)—reduced client overhead 35%
- Leveraged AI development tools (Claude Code, Cursor) for rapid prototyping; enabled team to ship features 60% faster

Founder & Product Lead — LeSearch AI – AI-Powered Research Platform   Nov 2024 – Present
- Built 0→1 enterprise AI platform serving 100+ researchers at 4 universities; achieved 87% retention via Jobs-to-be-Done framework and continuous customer validation
- Conducted 50+ user interviews; executed 3 strategic pivots; made key tradeoffs (RAG over fine-tuning, semantic search over citations)
- Integrated IBM Docling for PDF extraction; evaluated IBM Granite for local inference; designed FERPA-compliant architecture with RBAC for 10K+ users
- Tech: Next.js, Supabase, FastAPI, RAG pipeline with vector embeddings, LangChain, Hugging Face

AI Product Manager — iSpeak AI – AI Automation Agency   Aug 2023 – Aug 2024
- Led cross-functional product development for 10+ clients; translated AI capabilities into PRDs and user stories—90% satisfaction
- Built monitoring stack (Google Analytics, Sentry, Datadog); developed Neo4j knowledge graphs improving targeting 25%
- Implemented responsible AI practices including safety guardrails and content moderation frameworks

Graduate Research Assistant — Duquesne University – AI & EdTech Innovation   Aug 2022 – May 2025
- Built University Buddy AI: FERPA-compliant Canvas LMS integration tested by 100+ students; improved engagement 40%
- Authored white papers on AI search behaviors; analyzed AI adoption barriers across 20+ enterprise teams identifying 5 key challenges
- Collaborated with faculty on AI ethics & governance research; served as judge for 5+ marketing pitch competitions

EDUCATION

Duquesne University – Palumbo-Donahue School of Business   Pittsburgh, PA
MBA & MS in Analytics & Information Management — GPA: 3.65/4.0   Aug 2022 – May 2025
Cahouet Scholar (Merit) — Individual Honor – Analytics Challenge — ML, Predictive Analytics, Cloud Computing, Product Strategy

TECHNICAL PROJECTS

Nested Learning Framework — Python, PyTorch, Hugging Face   GitHub
Reimplemented Google's Nested Learning paper from scratch; built custom training loop with gradient checkpointing & memory optimization; validates ML research→production engineering capability

SLM Fine-Tuning & Deployment — Python, Hugging Face Transformers, Claude Code   HuggingFace
Fine-tuned small language model using LoRA on custom dataset; built training pipeline on local GPU; deployed to Hugging Face Hub for public inference

Natural Language SQL Agent — Python, LangChain, IBM Granite, Ollama   GitHub
Privacy-first NL-to-SQL tool with automatic schema introspection and safety guardrails; adopted by 50+ users for data exploration

SKILLS & CERTIFICATIONS

Product Management: User Research (150+ interviews), Roadmap Planning, Backlog Grooming, Sprint Planning, PRDs, Go-to-Market Strategy, Customer Discovery, Agile/Scrum, Stakeholder Alignment, A/B Testing, Funnel Analysis, Design Thinking, Competitive Analysis, Market Research

AI/ML & Engineering: LLMs (GPT, Claude, IBM Granite), RAG Systems, IBM Docling, PyTorch, Hugging Face Transformers, LangChain, Model Fine-tuning (LoRA), Model Deployment, Vector Databases, Prompt Engineering, AI Ethics & Responsible AI

Tools: Jira, Confluence, Linear, Amplitude, Google Analytics, Sentry, Datadog, Claude Code, Cursor, Docker, PostgreSQL, Neo4j, Supabase, Figma

Languages: Python, TypeScript, JavaScript, SQL • **Protocols:** ACP, MCP • **Certs:** Aha! PM — Atlassian Agile PM — Azure AI — DeepLearning.AI (10+)