

KARTHIKEYAN V

Technical Program Manager | Product Manager | AI/LLM · XR · Enterprise Delivery

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PROFESSIONAL SUMMARY

Technical Program Manager and Product Manager with 5+ years of experience owning technical programs and product strategy end-to-end — from Plan of Record (schedule, scope, budget) through product roadmaps, cross-functional delivery, and stakeholder communication. Currently building an offline multilingual AI chatbot for the Indian defence sector using Sarvam AI (Ollama/mashriram sarvam-g-lite), delivering native-language intelligence (Tamil, Hindi, and other Indian languages) with voice input/output and zero internet dependency. Proven track record managing 10+ concurrent enterprise and consumer programs at 95% on-time delivery and 95% stakeholder satisfaction, partnering with Engineering, Design, Data Science, and QA in matrixed, cross-regional organisations spanning healthcare, automotive, defence, and education. Genuine health-tech and clinical product experience: built a VR eye-care application for Johnson & Johnson (deployed to hospitals in New York and the UK), developed kidney, dental, and liver surgery training modules for BITS Pilani's Human Anatomy program with SMEs, and built a hospital safety VR application for the Changi Hospital team. Deploys agentic AI infrastructure (MCP multi-agent orchestration, LLM integration, Vertex AI Gemini API) to redesign workflows, achieving 30% efficiency gains while maintaining responsible AI practices. Mechatronics Engineering foundation spanning robotics, electrical systems, PLC, SCADA, and digital twin data transfer (VTK). Open to relocation to any location.

CORE COMPETENCIES

- **Technical Program Management:** Plan of Record (Schedule, Scope, Budget) · Risk & Issue Management · Milestone & Delivery Tracking · Cross-Functional Coordination · PMO Governance · Agile/Scrum · Jira · MS Project
- **Product Management:** Product Vision & Roadmap Planning · Prioritization & Backlog Management · PRDs, BRDs & FRDs · Market & User Research Synthesis · Cross-Functional Product Strategy · Success Metrics · A/B Testing · Figma Wireframing
- **AI & Agentic Workflows:** MCP Multi-Agent Orchestration · LLM Integration (Claude API, Sarvam AI, Ollama) · Vertex AI Gemini API · Offline AI / Edge AI · Computer Vision · On-Device AI · Prompt Engineering · Responsible AI Practices
- **Health-Tech & Clinical Products:** J&J Eye Care XR Application · BITS Pilani Surgical Training Modules (Kidney, Dental, Liver) · Pharma Model Development with SMEs · Hospital Safety VR (Changi) · Clinical Requirement Translation
- **Defence & Specialised Domains:** Offline Multilingual Chatbot for Defence (Sarvam AI / Ollama, May 2026 – Present) · Defence Holographic VR Advisory · Native Indian Language AI Systems · Edge AI Deployment · Technical Advisory
- **Data, Design & Tooling:** SQL · Amplitude · Power BI · Microsoft Fabric · Figma · A/B Testing · Zoho CRM · Monday.com · WordPress/CSS · AWS · Azure · GCP
- **Engineering Foundation:** Unity · C# · Python · React · Android SDK · TensorFlow · OpenCV · MediaPipe · AR Foundation · Mechatronics / Robotics / PLC / SCADA / Digital Twin (VTK)

PROFESSIONAL EXPERIENCE

Technical Product Consultant — Defence AI & Agentic Systems

May 2026 – Present

Freelancer · Full-time · Thoothukudi, Tamil Nadu (Remote)

- Designing and building an offline multilingual AI chatbot for the Indian defence sector — using Ollama (mashriram/sarvam-g-lite 1B and 4B models) to deliver native-language intelligence (Tamil, Hindi, and other Indian languages) without internet dependency; features include a language dropdown, voice input, and spoken answers served via a local VS Code server.
- Providing technical advisory on holographic VR / spatial computing product direction — defining initial product scope, user flows, and experience architecture for an AI-powered holographic display system; applying agentic AI tooling and Figma-based wireframing in an early-stage, ambiguous 0-to-1 context.
- Coordinating across defence partner functions and representing program direction to stakeholders — identifying risks, proposing mitigation actions, and maintaining objectives aligned with sponsor priorities in a sensitive, high-constraint operating environment.

Technical Project Program Manager

Jan 2025 – May 2026

Next XR Group (formerly VR AR Solutions Australia) · Full-time · Thoothukudi, Tamil Nadu

- Managed 5+ concurrent programs — built and executed each Plan of Record (schedule, scope, budget, infrastructure setup, test plan coordination) to meet deadlines across global, distributed teams.
- Tracked key program metrics and escalated deviations from Plan of Record in a timely manner; maintained risk trackers and drove mitigation plans across 10+ concurrent enterprise programs, sustaining 95% on-time delivery and 95% stakeholder satisfaction.
- Collaborated with key stakeholders and program sponsors, including senior leadership, to set priorities, coordinate communication cadence, and align cross-functional teams (Engineering, Design, Data Science, QA).
- Deployed agentic AI infrastructure (MCP orchestration, LLMs, Vertex AI Gemini API) to streamline tracking and reporting workflows, improving efficiency by 30%.
- Configured and tracked an internal product launch campaign using Zoho CRM and Monday.com CRM, A/B testing, and WordPress/CSS landing page tweaks.

Product Manager

Jan 2025 – Apr 2026

Next XR Group (formerly VR AR Solutions Australia) · Full-time · Thoothukudi, Tamil Nadu

- Owned product vision and roadmaps for 5+ product areas — prioritized deliverables, coordinated resources across marketing, legal, and engineering, and drove teams to key milestones.
- Led pharma model development for BITS Pilani, working closely with subject matter experts to translate scientific and pharmacological logic into clear, user-facing learning experiences.
- Gathered and synthesized market and user research into a single coherent product strategy, applying Figma wireframes/prototypes and A/B testing to shape UX before development.
- Analyzed usage data (SQL, Amplitude, Power BI) to define success metrics and iterate on engagement and retention.

Team Leader — Product & Engineering

Oct 2024 – Jan 2025

Next XR Group (formerly VR AR Solutions Australia) · Thoothukudi, Tamil Nadu

- Led and mentored a product/program team of 6, establishing schedules, task assignments, and progress tracking; coordinated multiple cross-functional teams, improving delivery velocity by 30%.
- Analyzed large-scale datasets (SQL, Power BI) to inform metric tracking and milestone decisions.

XR Developer / Product Lead

Jun 2023 – Oct 2024

Tata Consultancy Services · Full-time · On-site · Chennai, India

- Managed product and program execution for 5 enterprise clients across defence, banking, and education — built Plans of Record, coordinated resources across marketing, legal, and compliance, and drove teams through multiple life-cycle phases.
- Built the J&J Eye Care XR application over a 2-year engagement, deployed to hospitals in New York and the UK; developed kidney, dental, and liver surgery training modules for BITS Pilani's Human Anatomy program with SMEs; built a Safety VR application (fire extinguisher training) for the Changi Hospital team.
- Delivered a real-time data pipeline processing 500+ units/hour at 95% accuracy and a consumer platform serving 3,000+ users — driving 70% operational efficiency improvement and 20% revenue growth.
- Represented program status and risk to stakeholders across 5 enterprise accounts, maintaining alignment across the wider organisation.

System Engineer / Scrum Master

Dec 2022 – Jun 2023

Tata Consultancy Services · Full-time · On-site · Chennai, India

- Served as Scrum Master for 3 concurrent workstreams — facilitated Agile ceremonies, managed sprint backlogs and task tracking, and removed blockers to maintain 95% on-time delivery.

Associate System Engineer

Dec 2021 – Dec 2022

Tata Consultancy Services · Full-time · Hybrid · Chennai, India

- Supported product and program delivery across 3 concurrent launches — coordinated across partner functions, defined scope and requirements, and reduced handoff defects by 15% through structured documentation.

Freelance Web Developer

Feb 2021 – Dec 2021

Freelancer · Thoothukudi, Tamil Nadu

- Managed 8+ concurrent B2C engagements as sole product/program owner — tracked scope, timelines, and client priorities end-to-end at 100% client retention.

KEY ACHIEVEMENTS

- Currently building an offline multilingual AI chatbot for the Indian defence sector (Sarvam AI / Ollama, May 2026 – present) — delivering native Indian-language intelligence (Tamil, Hindi, and more) with voice input/output, zero internet dependency, and local VS Code server deployment.
- Led 10+ technical program and product areas across enterprise and consumer domains — 95% on-time delivery and 95% stakeholder satisfaction spanning healthcare, automotive, defence, and education.
- Built health-tech and clinical XR products — J&J Eye Care application (New York & UK hospitals), BITS Pilani surgical training modules (kidney, dental, liver), pharma model development with SMEs, and Changi Hospital safety VR.
- Applied agentic AI infrastructure (MCP orchestration, LLMs, Vertex AI Gemini API) to program and product workflows — 30% efficiency improvement; Anthropic-certified in AI fluency and agent orchestration (Jun 2026).
- Drove 70% operational efficiency improvement and 20% revenue growth through data-driven decisions (SQL, Amplitude, Power BI); improved team delivery velocity by 30% through structured task tracking and cross-functional coordination.
- Mechatronics Engineering foundation (robotics, electrical systems, PLC, SCADA, digital twin/VTK) supports technical fluency across hardware, software, and industrial AI domains.

EDUCATION

Bachelor of Engineering — Mechatronics Engineering

Aug 2017 – Apr 2021

Kamaraj College of Engineering and Technology, Virudhunagar, Tamil Nadu

CERTIFICATIONS & ONGOING DEVELOPMENT

- PMI Authorized Training Partner (ATP) Badge | LinkedIn Learning (2025) — badge awarded on completion of PMI-accredited project management courses on the LinkedIn Learning platform
- Cert Prep: Scrum Master | LinkedIn Learning — PMI ATP · PDUs: 1.25 (Aug 2026) · Microsoft Project Step by Step: Planning for Successful PM | LinkedIn Learning — PMI ATP · PDUs: 4.00 (Aug 2026)
- Agile Software Development: Transforming Your Organization | LinkedIn Learning — PMI REP · PDUs: 1.25 (Sep 2026) · Enterprise Architecture Foundations | LinkedIn Learning (Sep 2026)
- SAP: Learning to Use SAP LeanIX for Successful Enterprise Architecture — Beginner Level (2026)
- Explore Generative AI with the Vertex AI Gemini API | Google Cloud — Machine Learning & AI Skill Badge · Intermediate (2026)
- Anthropic: Building with the Claude API · Introduction to MCP (Agent Orchestration) · AI Fluency Framework & Foundations · Claude Code in Action · Claude Platform 101 · Claude Cowork (Jun 2026)
- Agentic AI Economics: Business Models & Pricing Strategies | LinkedIn Learning — NASBA CPE Credit (Aug 2026) · LearnTube.ai: Project Management Assessment (Aug 2026)
- AWS Certified Developer – Associate | Amazon Web Services (Sep 2023) · Unity VR Development | Unity Technologies