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HEAD OF AI — APPLIED AI, COMPUTER VISION & AGENTIC DELIVERY

AI and product leader with 10 years of experience building and scaling applied AI and analytics platforms, with an MSc in Computational Statistics and Machine Learning from UCL. Built two functions from scratch: an AI and computer-vision R&D function at Accubits, delivering 20+ client projects including work for Smart Dubai Government, the UAE Ministry of Human Resources and Emiratisation and ADNEC Abu Dhabi; and Quidich's product function, growing a computer vision capability into a production platform suite serving the ICC, BCCI, ECB and Cricket Australia since 2021. Leads teams of up to 20 and owns the commercial lifecycle from tender to renewal. Directs agentic engineering and LLM applications under evaluation and verification gates, turning complex technology into dependable, contract-ready services.

PROFESSIONAL EXPERIENCE

Quidich Innovation Labs, Mumbai

Head of Product | Apr 2021 – Present

Product Manager, Player Tracking → Senior Product Manager → Head of Product

- Built Quidich's product function and set its product strategy, scaling one computer-vision capability into multiple product lines across three sports and five or more leagues and turning a single deployment into repeatable, renewable revenue. Leads cross-functional teams of 18–20 across engineering, computer vision, operations and deployment, currently 12 engineers on multi-camera tracking, pose estimation and ball review.
- Took **Quidich Tracker**, a single-camera live player-tracking system, from concept to production AI running on ICC, BCCI, ECB and Cricket Australia broadcasts, with 4,000+ transaction days since its 2021 launch. Won the **NASSCOM AI Game Changer Award 2022**; patent application in process.
- Cut delivery cost per event by moving Quidich Tracker from a two-operator to a one-operator workflow, adding an automated decisioning layer that resolves identity and swap errors in real time from motion, directional and weak visual cues, with reliability held through IPL-scale tournament load.
- Owned the response to BCCI's decision-review (DRS) tender and led the four-month build of **Kairos ReQall**, a six-camera 1080p120 referee-review and replay server, from storage proof-of-concept to a match-ready system benchmarked feature by feature against the incumbent product. Owned scope rulings, the camera-fleet bench, match-day rehearsals and the bid material.
- Set the delivery standard for agentic AI in engineering: spec-driven briefs, measured acceptance criteria and release gates. On ReQall it shipped ~61,000 lines across 836 commits in four months, with 159 test files, 20 browser drive scripts against the live stack, ±3 ms cross-camera alignment and 8.3 ms review-wall frame stepping.
- Launched **HyperView**, an Unreal-based storytelling platform producing digital stadium replicas and live data-driven visuals, deployed at the Ashes and opening a second product line. Shortlisted for the Broadcast Sports Awards 2023, Broadcast Tech Innovation Awards 2023 and Sports Technology Awards 2024; two patents pending.
- Built **QStat**, an analytics platform over tracking data giving delivery-level field-state recall to broadcasters and teams. Hired and led its 5-person team and owned schema, architecture and cloud pipeline decisions.

AividTech Vision, Ahmedabad

Product Manager | Sep 2020 – Mar 2021

- Owned the roadmap for computer-vision compliance automation and workplace safety monitoring, turning enterprise customer requirements into applied-AI workflows built for real deployment conditions, and defined detection scope and acceptance criteria with customers for real-time monitoring against safety and regulatory rules.

Career break | Jan 2020 – Aug 2020. Planned sabbatical.

Accubits Technologies, Trivandrum

Head of AI Development | Apr 2017 – Dec 2019

- Established and ran the company's AI and computer-vision function from scratch, delivering 20+ client projects and 3 in-house products with a team of 5 across healthcare, construction, public sector and IT. Founded the internal AI hackathon and raised ~USD 150K for two products, ISA (Integrated Speech Agent) and InsightsBud.
- Delivered AI for UAE government and enterprise clients: Emotix, a crowd-analytics system across 200+ cameras in eight convention centres and a shopping mall at ADNEC Abu Dhabi (detection, counting, face and emotion recognition, face clustering), and predictive models plus a dataset recommendation engine for Smart Dubai Government and the Ministry of Human Resources and Emiratisation, cutting dataset search time by 20 seconds.
- Cut inventory binning turnaround from 20 days to 1 day at 98% accuracy for a US e-commerce client using CNN embeddings with NLP attribute matching, and piling-schedule turnaround from 30 days to 1 day for a South-East Asian construction group using evolutionary optimisation.

upGrad, Mumbai

Data Science Program Associate | Feb 2016 – Mar 2017

- Designed the curriculum and structure of upGrad's first Data Science program with faculty and industry experts, and wrote the content, code and projects.
- Launched the first cohort of ~300 students, contributing ~INR 90 lakh of revenue during the company's early phase.

SELECTED INDEPENDENT WORK

Multi-asset market research and simulation platform | 2026

- Built and operate a research platform spanning crypto perpetuals, US and Indian equities and commodities, across four venue integrations and four exchange trading calendars, running research and paper execution only with no live capital. Roughly 282,000 lines of core Python, with a React and TypeScript operations dashboard over a FastAPI service.
- Designed its model-risk governance layer: fail-closed causality, leakage, execution-realism and overfitting gates behind a single pre-run assertion, so no campaign can cherry-pick a passing subset, and 21 catalogued failure classes, each tied to the regression test that prevents recurrence. Covered by 655 test files and 5,163 tests.
- Applied the same standard against my own results, retiring a strategy that scored a 2.76 profit factor in sample once cross-instrument testing returned 1.03 on unseen instruments. 46 of 89 catalogued strategies are retired on evidence.
- Built a multimodal LLM pipeline that reads unstructured social posts and chart images into schema-validated trade signals, using a locally hosted vision-language model behind a no-guess prompt, confidence thresholds and a calibration gate. Measured over 95 signals, neither source held up across months, so it stayed on paper.
- Run delivery as a multi-agent workflow: planning and execution routed to different model tiers, independent reviewer agents that verify findings before any fix, spec-first task briefs, and a standing rule that agent-written code merges only after passing the gate stack; 3,004 commits in four months.

Balcão, an operations platform for hotels and guesthouses | 2026

- Building a platform for inventory, GST invoicing, stays and staff as its product owner, with AI agents doing the implementation; now being prepared for a pilot with its first customer, with 1,400+ automated tests.
- Designed its AI layer as a thin, provider-swappable gateway across Anthropic and Google models, with structured outputs, a durable log of every paid call and per-invoice cost tracking. A model may read invoices only after clearing a set accuracy bar on hand-checked invoices, with "wrong value that passed every check" as the headline risk metric.

CAPABILITIES

Leadership & Strategy: AI and product strategy, building and hiring AI, data and engineering teams, standing up AI functions from scratch, cross-functional leadership across engineering, computer vision, operations and deployment, coaching technical teams, executive and client stakeholder management

Commercial & ROI: tender and bid ownership, contract renewals, business cases measured in delivery cost, turnaround time and revenue, competitive benchmarking, build-versus-buy and model-cost decisions

Applied & Generative AI: real-time detection and tracking, multi-camera systems, pose estimation, analytics platforms, LLM and vision-language applications, structured outputs, agentic and multi-agent workflows

Production AI & Governance: production deployment under live-broadcast reliability, evaluation design and acceptance criteria, model approval bars, fail-closed release gates, audit logging, and the review standards that make agent-written code shippable (Claude Code, Cursor, MCP)

RECOGNITION & PATENTS

- **NASSCOM AI Game Changer Award 2022** for Quidich Tracker
- Shortlisted: Broadcast Sports Awards 2023, Broadcast Tech Innovation Awards 2023, Sports Technology Awards 2024 for HyperView at the Ashes
- Three patent applications in process across Quidich Tracker and HyperView
- Featured speaker, IEEE Conference 2019, IIT Bombay; deep-learning workshops for working professionals with FAYA

EDUCATION

MSc Computational Statistics and Machine Learning, University College London | 2014–2015

BSc (Hons) Statistics, Sri Venkateswara College, University of Delhi | 2011–2014