# PARTHA SEN

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**Cases Published:** Case [1] (Ref: 200865) & Case [2] (Ref: 200889)

## PROFESSIONAL SUMMARY

AI & quantitative practitioner with 20+ years across Agentic AI, Vision AI, equity quant trading, and industrial automation. Took AI products from scratch to market, driving $1M+ ARR.

## PROFESSIONAL EXPERIENCE

### Associate Vice President, Datamatics Global Solutions

*Bangalore, India | May 2024 – Present*

- **Agentic Architecture:** Built enterprise multiagent workflows enforcing GCP SAIF and OPA guardrails.
- **Edge Vision AI:** Led Vision AI deployments across industrial and retail sites, eliminating phantom inventory and cutting cold-chain maintenance 20%.
- **GPU AI Lab:** Designed NVIDIA T4/L2 lab, cut inference and training costs 45%.

### Professor of Practice, GIBS Business School

*Bangalore, India | Aug 2023 – Apr 2024*

- **Mentorship:** Designed and delivered an applied AI product-building course for 200+ postgraduates; 95% satisfaction. Mentored 15+ project teams; 3 AI concepts reached pre-seed commercialization.

### Lead ML / AI Engineer, Avyay Solutions

*Bangalore, India | Mar 2021 – Jul 2023*

- **ML Platform:** Led enterprise ML platform integrated with SAP ERP.
- **Predictive SaaS:** Delivered 11% forecasting accuracy gain and 65% lower logistics workforce overhead.

### Founder & AI / Quant Consultant, Algoix Technologies LLP

*Bangalore, India | 2012 – 2021*

- **Venture Leadership & Incubation:** Founded and incubated an enterprise AI product at ISB (Hyderabad) in partnership with Google Cloud.
- **Public-Sector Platform:** Designed and scaled a public-sector AI counseling platform serving 65,000+ underprivileged students.
- **Industrial Digitization & IoT:** Automated CAD/AutoLISP factory workflows to cut design errors by 30% (boosting throughput by 60%) and built ESP32/Raspberry Pi edge IoT fault detection systems.

**Assistant Professor, EIILM University**
*Sikkim, India | 2010 – 2012*

**Assistant Manager, HSBC**
*Kolkata, India | 2007 – 2010*

**CAD Engineer, Utility Engineers**
*Kolkata, India | 2000 – 2004*

## SKILLS

- **Local & open weight model training:** Architecture, experiment design, ML, model training to prototype in 80% reduced time using Antigravity, cursor & Claude assistance. fine-tuned KV cache, encoder, decoder, diffusion, transformer models on local GPU labs.
- **Agentic AI Development:** Multiagent orchestration, Agentic Graph RAG with multimodal VLMs, frontend public models and small local models.
- **AI & ML Stack:** causal inference, time-series forecasting, automated defect detection, OPA/Rego policy-as-code, cryptographic capability tokens (CBCT).
- **Quantitative Finance:** Statistical arbitrage, factor modeling, causal graphs, ESG divergence analytics, order execution.

## LEADERSHIP

- **Executive Front Facing:** Translated models, vision algorithms, and agentic protocols into board level business cases.
- **AI Product Ownership:** Led cross-functional engineering and product teams delivering commercial AI systems and revenue roadmaps.

## PROJECTS (SELF FUNDED)

- **Agentic AI Twin simulated CoPilot:** Signals for BRSR filed Indian Equities to transform consensus estimation to check the drawdown or upward possibility of holding.
- **Simulation & EdTech Platform [Pilot]:** Explainable, API driven simulation engine for improved learning experience; piloting with top-100 institutes.
- **Human Auto Looped Multiagent Decision System [Patent Applied]:** Autonomous routing protocol between expert digital twins, and human experts network.behalves.space .

## EDUCATION

**MS, Data Science**, Northwestern University (SPS), Chicago (2022 – 2024)

**MBA**, NIT Durgapur (2005 – 2007)

**B.Tech, Mechanical Engineering**, NIT Surat (1996 – 2000)