

Subhadip Mitra

Engineering Leader & AI Systems Architect

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Senior Engineering Leader with 15+ years bridging AI research and enterprise delivery. Leading Google Cloud's Data & Analytics practice for Southeast Asia while driving innovations in LLM inference and multi-agent systems.

Experience

Head of Data & Analytics, Southeast Asia — Site Lead, PSO Southeast Asia

Google Cloud - Professional Services Organization 2021–Present

- Built D&A practice from 0 to 1 across 6 countries; 97% CSAT
- Site Lead overseeing delivery governance across 7 PSO practices (Data Analytics, AI/ML, Infrastructure, Security, Enterprise Architecture, AppDev, Delivery Management)
- Pioneered agentic AI adoption across 7 practices and 6 JAPAC sub-regions with SDKs, agent catalog, and governance frameworks
- Spearheaded rescue operations for at-risk enterprise accounts, recovering strategic customers
- Partner with Sales leadership on strategic pursuits; collaborate with Product Engineering on platform roadmap
- Published 5 technical disclosures (UIPR, FTCS, ARTEMIS, ETLC, CatchMe) on AI/distributed systems

Principal Engineer - Data & Analytics Transformation

Standard Chartered Bank 2019–2021

- Delivered Self-Service ML Workbench reducing model deployment from months to weeks
- Architected MarTech strategy driving 30% increase in customer acquisition
- Built credit risk models over 15K+ entities using news/social signals, reducing losses by \$5M

Principal Data Engineer / Solution Architect

Think Big Analytics (Teradata) 2017–2019

- Engineered 5 data lakes processing 1.2 PB/hour with 20% optimization
- Built real-time fraud detection reducing false positives by 60%

Software Engineering & Technical Leadership

Microsoft, UTU & Others 2010–2017

Education

MBA, Business Analytics

BITS Pilani 2021–2023

MTech, Software Systems

BITS Pilani 2017–2020

Research & Innovation

LLM Inference Efficiency (2025)

Speculative decoding, custom Triton kernels, KV-cache compression. 8.1x speedup, 88% peak bandwidth on A100.

AI Metacognition Toolkit (2025)

Activation-level detection of sandbagging and deception in LLMs. 90–96% accuracy with steering vectors.

UIPR - Distributed Systems Synthesis (2025)

Neuro-symbolic framework for automated distributed system generation. 274x speedup, 60% latency reduction.

CatchMe - Intelligent Trust Engine (2025)

Agentic AI for enterprise trust decisions. APLS pattern learning + cascade routing. 86% cost reduction, sub-50ms latency.

Spark LLM Eval - Distributed Evaluation Framework (2025)

Enterprise-scale LLM evaluation on Apache Spark. Statistical rigor with bootstrap intervals, multi-provider support (OpenAI, Anthropic, Gemini), Delta Lake integration.

Steering Vectors for Agent Behavior (2025)

Runtime control of LLM agent behaviors through activation steering. 65% uncertainty detection while maintaining 100% confidence on factual queries.

Publications

- [UIPR: Automated Synthesis and Verification of Distributed Systems \(2025\)](#)
- [ETLC: Context-First Data Processing for GenAI \(2025\)](#)
- [Field-Theoretic Context System \(FTCS\) \(2025\)](#)
- [ARTEMIS - Adaptive Multi-agent Debate Framework \(2025\)](#)
- [OConsent: Blockchain Privacy & Consent Protocol \(2021\)](#)

Skills

Leadership: Enterprise Architecture, Digital Transformation, AI & Data Strategy, C-Suite Advisory

Data & AI: Petabyte-Scale Platforms, Apache Spark/Kafka/Flink, Delta Lake, LLMs & Multi-Agent Systems, RAG & Vector Databases, PyTorch, Vertex AI

Cloud & Engineering: Google Cloud Platform, BigQuery, Python/SQL/Scala, Kubernetes, Distributed Systems