Subhadip Mitra

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Technical leader and hands-on innovator with 15+ years architecting data and AI solutions across JAPAC's Financial Services, Telecom, and Technology sectors. Expertise in GenAI frameworks, cloud transformation, and billion-scale distributed systems.

Data & AI Strategy, Multi-Agent Systems, Enterprise Architecture, Cloud Transformation, Technical Leadership, GenAI, Python, Java

PROFESSIONAL EXPERIENCE

Google Cloud - Professional Services Organization, Southeast Asia

Data & Analytics Manager | Site Lead, PSO Southeast Asia (2021-Present)

- Direct **$XXM Data Analytics delivery portfolio** across JAPAC while overseeing **$XXM cross-practice delivery portfolio as Site Lead** for Southeast Asia.
- Invented multiple technical frameworks including FTCS, ETLC, and ARTEMIS, advancing context processing and data integration for the Generative AI era.
- Led critical interventions across JAPAC, including a 7-week remediation for a major financial institution's Data AI transformation program (**rescuing a $XXM deal**), stabilizing **ETL clusters for a leading bank** enabling regulatory-driven migration, and a rapid data transformation strategy for a **global electronics leader**, collectively safeguarding $XXM in revenue.
- Executed high-value first-of-a-kind projects including **analytics migrations, data monetization platforms,** and **AI centers of excellence.**
- Built **high-performing teams** exceeding utilization targets through focused rapid upskilling in GenAI and cloud technologies.
- Spearheaded large-scale **GenAI transformation program** across 25 government agencies.
- Led **$XXM in strategic pursuits** across JAPAC with a **40+ % win rate**, converting major accounts across financial services, manufacturing, and retail sectors.

Standard Chartered Bank, Singapore

Principal Engineer - Data & Analytics Transformation (2019-2021)

- **Drove C-suite** executives at the bank to invest in and champion a comprehensive transformation program. Personally **designed, built, and delivered** the Retail Bank's **data and analytics platform spanning 11 key markets**, integrating 800 batch/real-time source systems and supporting 1500 internal users, resulting in delivering **$XXM in annual operational cost savings.**
- Led modernization initiatives driving Data & Analytics transformation, **MarTech** implementation, **Digital channels'** enhancement, **cross-industry data sharing** partnerships and **Explainable AI** systems while directly influencing C-suite technology investment decisions.
- Delivered **Self-Service ML Platform** reducing model deployment from **6 months to 1 week**.
- Designed **credit risk AI models** with alternative data sources, improving **accuracy by 15%.**

Think Big Analytics (Teradata), Singapore

Principal Data Engineer / Solution Architect (2017-2019)

- Designed and developed grounds up **5 Data Lakes across the globe**, with highly scalable ETL pipelines serving data volumes of up to **1.2 PB per hour and 40K daily files**
- Engineered the **low latency real time** in-memory platform, processing over **2.5 million events/sec**
- Built real-time fraud detection systems, reducing false positives by 60% and saving $XXM annually.

UTU[1], Singapore

Technical Lead (2016-2017)

- Delivered high-performance payment systems with 99.99% uptime and sub-100ms latency.
- Defined technology roadmaps enabling market expansion into Thailand.

Truckaurbus Marketplace[2], India

Founder & CTO (2014-2016)

- Scaled B2B digital marketplace across 15 cities with 25+ OEM partnerships.
- Led technical strategy and product development for auction and programmatic advertising platform.

Additional roles from 2010 – 2014 in Software Engineering and Technical Consulting.

EDUCATION & CERTIFICATIONS

- MBA, Business Analytics, BITS Pilani (2021-2023)
- M.Tech, Software Systems, BITS Pilani (2017-2020)
- Google Cloud Certified: Professional Cloud Architect, ML Engineer, Data Engineer (2022-2024)

PUBLICATIONS & INNOVATIONS

- Field-Theoretic Context System (FTCS) - A novel approach to context processing (Technical Disclosure[3], 2025)
- ARTEMIS - Adaptive Multi-agent Debate Framework (Technical Disclosure[4], 2025)
- ETLC: A Context-First Approach to Data Processing in the Generative AI Era (Google Cloud Whitepaper[5], 2025)
- Continuous Context Propagation System (Patent-pending, Google, 2025)
- Data Monetization Strategy[6] for Enterprises (2023)
- Open Location Proof[7] (OLP) Protocol & OConsent Protocol[8] (2021-2022)
- PyContext[9] - Framework for building autonomous multi-agent systems & context management.

TECHNICAL EXPERTISE

- **Leadership & Strategy:** Enterprise Architecture, Technical Vision, AI & Data Strategy, C-Suite Advisory
- **Data & AI:** Multi-Agent Systems, LLMs, Data Mesh, RAG, Vector Databases, Data Governance
- **Cloud & Infrastructure:** GCP (BigQuery, Vertex AI, Spanner), Serverless, Microservices
- **Engineering:** Python, Java, SQL, Scala, High-Performance Computing, Distributed Systems

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[1] https://utu.global
[2] https://truckaurbus.com
[3] https://www.tdcommons.org/dpubs_series/8022/
[4] https://www.tdcommons.org/dpubs_series/7729/
[5] https://services.google.com/fh/files/blogs/etlc_full_paper.pdf
[6] https://www.researchgate.net/publication/376557741_Data_Monetization_Strategy_for_Enterprises
[7] https://olpprotocol.com/
[8] https://oconsent.io/
[9] https://github.com/bassrehab/pycontext

RESEARCH INTERESTS

- **Multi-Agent Systems:** Cooperative AI, Agent Communication Protocols, Emergent Behaviors, Multi-Agent Debate, Consensus Mechanisms, Agent Coordination
- **Privacy-Preserving AI:** Differential Privacy, Federated Learning, Multi-Party Computation, Homomorphic Encryption, Privacy-Utility Tradeoffs, Consent Management
- **Advanced Computing Architectures:** Quantum Computing, Neuromorphic Computing, Post-Quantum Cryptography, Approximate Computing, Non-Von Neumann Architectures
- **Theoretical Foundations:** Mathematical Modeling, Information Theory, Complex Systems, Probabilistic Methods, Distributed Consensus