

SUBHADIP MITRA

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EXECUTIVE SUMMARY

Senior Technology Leader with 15+ years of experience driving enterprise transformation through Data, AI, and Cloud innovations. At Google Cloud, I lead the Data Analytics practice while spearheading technical innovation through published frameworks like [ARTEMIS](#) and privacy-centric protocols. My approach combines strategic vision with technical execution—building high-performance engineering teams, architecting billion-scale data platforms, and delivering solutions with \$30M+ business impact across JAPAC.

PROFESSIONAL EXPERIENCE

Google Cloud – Professional Services Organization, Southeast Asia

Data & Analytics Manager | Site Lead, PSO Southeast Asia

Singapore | 2021–Present

Leading Google Cloud's Data Analytics practice while serving as Site Lead overseeing cross-practice delivery governance in Southeast Asia across Data & Analytics, AI, Infrastructure, Security, Enterprise Architecture, and Application Modernization.

- Direct a **\$20M+ Data Analytics delivery portfolio** across JAPAC while simultaneously overseeing a **\$30M+ cross-practice delivery portfolio as Site Lead** for Southeast Asia, all with consistent customer satisfaction. (last 2 years)
- Published **ARTEMIS (technical invention disclosure)**, an adaptive multi-agent framework for enterprise decision-making, demonstrating continued technical contribution beyond management responsibilities
- Led **critical interventions for strategic accounts** across JAPAC including a major financial services provider (7-week onsite intervention transforming governance and architecture) and a global consumer electronics manufacturer (strategic roadmap development preventing customer migration to alternative platform)

- Executed **high-value projects** including a global shipping company's 12,000+ user analytics migration, a leading bank's first **Data & AI Center of Excellence** in JAPAC, and a telecom provider's first-of-its-kind **Data Monetization Platform**
- As co-Site Lead, scaled regional delivery excellence contributing to 100% annual revenue target attainment with **97% CSAT** across all Southeast Asia projects
- Built high-performing teams exceeding utilization targets despite market headwinds, with focused upskilling in GenAI, cloud data technologies, and database modernization
- Contributed to **\$25M+ in strategic pursuits and pipeline development**, converting major accounts including financial institutions, manufacturers, and government agencies across JAPAC.
- Spearheaded the **first \$X million Sovereign GenAI Transformation program**, delivering it across 20+ government agencies within 3 months

Standard Chartered Bank

Principal Engineer – Data & Analytics Transformation

Singapore | 2019–2021

Led enterprise-wide **AI and data platform** development serving **11 markets** and 1200+ global users, delivering technical excellence while influencing C-suite data strategy.

- Delivered a **Self-Service ML Platform** that reduced model development and deployment time from 6 months to 1 week, establishing new standards for model development efficiency
- Designed **credit risk AI models** integrating alternative data sources, improving accuracy by 15% while maintaining regulatory compliance
- Modernized **MarTech** infrastructure, scaling customer analytics and driving a 30% increase in acquisition through data-driven engagement strategies

Think Big Analytics (a Teradata company)

Principal Data Engineer / Solution Architect

Singapore | 2017–2019

Architected enterprise-scale data solutions for Fortune 500 clients across APAC, designing scalable platforms with measurable business impact.

- Engineered **5 high-performance data lakes** capable of processing **1.2 PB/hour**, achieving **20% optimization** through architectural innovations
- Built **real-time fraud detection systems**, reducing false positives by 60% and saving \$3M annually through advanced statistical models

UTU (utu.global)

Technical Lead

Singapore | 2016–2017

Led technical strategy and engineering for a fintech startup, delivering high-performance payment systems and enabling market expansion into Thailand.

- Delivered **high-performance payment/rewards systems**, ensuring 99.99% uptime, **sub-100ms latency**, and scalability to handle peak transaction volumes
- Defined technology roadmaps enabling product growth and market expansion into Thailand, working directly with C-level executives and banking partners
- Established architectural patterns and governance frameworks for mission-critical payment systems, balancing innovation with compliance requirements

Truckaurbus Marketplace Pvt. Ltd. (truckaurbus.com)

Founder & CTO

India | 2014–2016

Founded and scaled a **B2B digital marketplace** across **15 cities**, leading end-to-end technical strategy and product development.

- Built a platform supporting **real-time auctions** and programmatic advertising, enabling transparent pricing for B2B services
- Established partnerships with **25+ OEMs and banks**, creating an ecosystem that drove rapid market adoption
- Led technical architecture decisions and development processes, balancing rapid iteration with scalable infrastructure

Various Companies

Software Engineering, Architecture and Technical Consulting Roles

2010–2014

Progressively advanced through roles in software development, operating systems, device programming, kernel programming, systems integration, and technical consulting within financial services and algorithmic trading domains.

- Consistently exceeded performance expectations, leading to promotions and increased responsibilities
- Developed strong expertise in C/C++/C#/Java development, architectural design, and client communication

EDUCATION

Birla Institute of Technology and Science, Pilani, IN

MBA, Business Analytics

2021–2023

Courses: Financial Risk Analytics, Marketing Models, Financial Management, Strategic Management, Operations Management, Financial and Management Accounting, Predictive Analytics

Birla Institute of Technology and Science, Pilani, IN

Master of Technology, Software Systems

2017–2020

Courses: Algorithms, Distributed Systems, Deep Learning, Natural Language Processing, Machine Learning, Artificial Intelligence (AI)

CERTIFICATIONS

- Google Cloud Certified Professional Cloud Architect (2024)
- Google Cloud Certified Professional Machine Learning Engineer (2024)
- Google Cloud Certified Professional Cloud Data Engineer (2022)

PUBLICATIONS & TECHNICAL INNOVATIONS

- **ARTEMIS – Adaptive Multi-agent Debate Framework** ([TD Commons, 2025](#))
Technical disclosure on an adaptive framework for multi-agent decision systems,

using structured debate protocols to enhance enterprise decision-making through collaborative reasoning.

- **ETLC Framework for GenAI-Era Data Platforms** (Google, 2024)
A framework reimagining data platforms for the Generative AI era, enabling context-aware data pipelines that enhance LLM capabilities through improved data preparation and enrichment.
- **Continuous Context Propagation System** (Google, 2024)
Patent-pending approach for automatic context propagation in complex data ecosystems, solving intricate data relationship challenges at scale through advanced modeling principles.
- **Automated Cloud Workload Discovery System** (Google, 2023)
A system leveraging billion-node graph models for architecture assessments and spatiotemporal graph optimization approaches, enabling automated discovery and mapping of complex cloud workloads.
- **Data Monetization Strategy for Enterprises** (BITS Pilani, 2023)
A comprehensive framework for enterprises to transform data into economic value, establishing methodologies now implemented across multiple JAPAC organizations.
- **Open Location Proof (OLP) Protocol** (2022, [Website](#))
A privacy-aware open protocol for non-repudiable point-in-time presence verification, published with complete specifications and reference implementations.
- **OConsent: Open Consent Protocol** (BITS Pilani, 2021, [Website](#))
A blockchain-based protocol for transparent personal data processing, enhancing user control and compliance with data privacy regulations.

TECHNICAL EXPERTISE

- **Technology Leadership & Strategy:** Enterprise Architecture, Technical Vision & Roadmaps, Digital Transformation, AI & Data Strategy, Cloud Architecture, Multi-Region Deployments, Security & Compliance, C-Suite Advisory, Business-Technology Alignment
- **Data Engineering & Architecture:** Petabyte-Scale Data Platforms, Data Pipelines, Real-Time Data Processing, Data Mesh & Data Fabric, Data Modeling, Polyglot Persistence, Cloud Data Architectures, Data Governance, Apache Spark, Apache Flink, Apache Kafka

- **Generative AI & Machine Learning:** Multi-Agent Systems, Large Language Models (LLMs), Responsible AI, Model Governance, Retrieval-Augmented Generation (RAG), Vector Databases, LLMOps, Multi-Modal AI, Enterprise AI Integration, ML/AI Infrastructure
- **Engineering Leadership:** High-Performance Team Building, Technical Mentorship, Engineering Excellence, Delivery Management, Architecture Reviews, System Design, Performance Optimization, Cross-Functional Collaboration
- **Cloud Platforms & Infrastructure:** Google Cloud Platform (GCP), BigQuery, Vertex AI, Cloud Spanner, GKE, Terraform, Infrastructure as Code, Serverless Architectures, Event-Driven Systems, Microservices
- **Programming & Development:** Python, Java, SQL, C/C++, JavaScript, Scala, Systems Programming, Low-Level Optimization, Concurrency & Parallelism, High-Performance Computing

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