TINTO JAMES T

PRINCIPAL AL ARCHITECT

CONTACT

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EDUCATION

M TECH - CSE 2003-2005
IIT Madras

AMIE – CSE 1999-2003 Institution of Engineers (India)

CERIFICATIONS

Deeplearing.Al

Deep Learning Specialization
(5 Courses)

Microsoft

<u>Professional Program for Data</u> <u>Science</u> (10 Courses)

PROFESSIONAL OVERVIEW

Strategic Al Solutions Architect specializing in Generative Al, Deep Learning, Machine Learning, Data Engineering, and solution design. Skilled in building scalable Al agents, LLM applications, and cloud ML systems across industries. Adept at transforming emerging technologies into business-ready solutions, delivering high-impact PoCs, and driving Al adoption. Proven leader in team collaboration, mentoring, and Al innovation.

SKILLS

- Al Strategy & Thought Leadership: GenAl trends, strategy alignment, team enablement, technical mentoring, and innovation.
- Al/ML Architecture: Solution design, model lifecycle, system integration, PoC delivery, scalable deployment, architecture reviews.
- Generative AI & LLMs: RAG, LLM fine-tuning, prompt engineering, AI agents (LangChain, CrewAI), Semantic search, LLM evaluation frameworks, Voice Agents, OpenAI, Hugging Face.
- Machine Learning & Deep Learning: Classification, regression, clustering, forecasting (Prophet, Holt-Winters), anomaly detection, CNN, RNN, transfer learning, NLP.
- Libraries & Frameworks: PyTorch, TensorFlow, Keras, Scikit-learn, NLTK, OpenCV.
- Cloud & MLOps: Azure Al Stack, Azure ML, Azure OpenAl, Azure Data Factory, AWS Bedrock, ML pipelines, containerized & API-based deployments, monitoring, automation.
- Data & Streaming: SQL Server, SSIS, SSAS, Apache Kafka, Spark, Vector Stores (FAISS, ChromaDB), ETL.
- Programming & Tools: Python, SQL, Shell scripting, DAX, Power BI, Streamlit, Git.

WORK EXPERIENCE

Feb 2025 - Present

G10x | Solutions Architect - Al

- Collaborated with clients to define AI needs, develop tailored roadmaps, identify strategic use cases, and deliver solution presentations and demos.
- Leading the design and deployment of LLM-powered Al agents, RAGs, and Generative Al solutions, leveraging diverse agentic frameworks and commercial LLM providers.
- Enabled rapid AI agent POC development and led the transformation of local LLM applications to scalable cloud-based solutions using FastAPI and React.
- Engineered optimized instruction fine-tuning on open-source models with custom datasets, demonstrating superior domain performance over RAG-based approaches.
- Drove the integration of voice agents and LLM evaluation frameworks, fostering a culture of evaluation-driven development.
- Mentored engineering teams and conducted internal enablement workshops to build strong in-house Generative AI competency at G10x.
- Engaged in active Al R&D, exploring autonomous agents, multi-modal transformers, and MCP Servers.

Aug **2018** – Jan 2025

EY | Assistant Director - AI / ML & Data Lead

- Consistently engaged with senior leadership and collaborated with cross-functional teams to deliver end-to-end analytics and reporting solutions.
- Built and deployed Azure Machine Learning models to predict high-priority incidents in real time, from base alerts to improve proactive issue resolution.
- Applied transformer models for intelligent incident clustering and classification, enabling improved tracking and enhanced operational efficiency.
- Developed a RAG POC leveraging internal knowledge bases and demo video transcripts to enhance contextual Al-driven search and response accuracy.
- Engineered data pipelines using Python and Azure Data Factory to ingest and curate data from diverse sources, ensuring seamless delivery to business intelligence tools.
- Designed and developed dynamic Power BI dashboards that translate data into actionable insights, supporting executive decision-making

Oct 2015 - Jul 2018

SFO Technologies | Senior Technical Specialist

 Designed and deployed Al/ML solutions and end-to-end data pipelines for IoT-driven applications and real-time analytics, bridging roles of ML specialist and data engineering architect.

- Built and deployed deep learning models for face/object detection, speech recognition, and video surveillance using TensorFlow Object Detection API.
- Developed time series analytics for anomaly detection, forecasting, and predictive maintenance to anticipate machine failures in IoT environments.
- Implemented Model Predictive Control and architected real-time data platforms using Spark and Kafka for streaming IoT data processing.

Apr **2005** – Sep 2015

Verizon | Senior Architect (Multiple Roles)

- Progressed from Software Engineer to Senior Architect, developing expertise in data engineering, architecture, and advanced analytics through increasing responsibilities.
- Executed advanced analytics projects including customer sentiment mining using Python NLTK for NLP tasks
- Architected and implemented scalable data warehousing solutions, driving centralized storage and efficient management of large-scale transactional data.
- Engineered high-performance ETL pipelines to transform and load data into star schema models, supporting robust analysis and reporting frameworks.

COURSES & CERTIFICATIONS

• IBM Introduction to Neural Networks and PyTorch

• IBM Deep Learning with PyTorch

Generative AI & LLMs: Architecture and Data Preparation

IBM Gen Al Foundational Models for NLP

• MITX The Analytics Edge

- DATABRICKSLarge Language Models: Application through Production
- DEEPLEARNING.AI Calculus for Machine Learning and Data Science
- UNIVERSITY OF ALBERTA
 Fundamentals of Reinforcement Learning

AWARDS

- Multiple EY SPOT & Significant Contribution awards for exceptional performance.
- Certificate for Excellence awarded by Verizon US Senior Vice President.
- Multiple Verizon India SPOT Awards for outstanding contributions.
- Ranked **325th nationally** in GATE-2003.