

Abhilash Kumar Panda

Senior Data Scientist · GenAI & Agentic Systems · Financial Services AI · LLMOps

Bangalore, India

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"Building AI solutions that are commercially accurate, not just technically sound."

Summary

Senior Data Scientist with 9 years of experience spanning financial markets operations and applied artificial intelligence. Specialises in Generative AI, Agentic Systems, RAG architectures, and LLMops — with a rare practitioner foundation in financial markets built at State Street Global Advisory. At London Stock Exchange Group, translated that domain expertise into production AI systems delivering £600K+ in business value and eliminating 55 FTEs of manual effort across global financial document workflows. Seeking to bring deep financial AI expertise to Singapore's world-class fintech and financial services ecosystem. Known for building AI solutions that are commercially accurate, not just technically sound.

Skills

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|---------------------------|--|
| GenAI & Agents | LangChain, LangGraph, Pydantic-AI, MCP, RAG, Vector DB, Agentic AI, Prompt & Context Engineering |
| LLMs | OpenAI GPT-4, Gemini, Claude, LLaMA (fine-tuned), HuggingFace |
| ML / DL | Scikit-learn, TensorFlow, PyTorch, NLP, Computer Vision, Statistical Modeling |
| Cloud & Ops | GCP, Azure, Azure Document Intelligence, LLMops, CI/CD, CML Pipelines |
| Languages | Python, SQL |
| Financial Domain | Equity, Commodity, and Derivative Markets, Asset Management Ops, Portfolio Reconciliation |

Experience

London Stock Exchange Group

Senior Data Scientist

Bangalore, India

Nov 2022 – Present

- Served as technical and project lead for multiple AI and Generative AI initiatives, driving delivery from problem definition and experimentation through production deployment within Agile teams.
- Led the development of an enterprise GenAI-powered financial document intelligence platform leveraging LLMs, meta-prompting, structured outputs, and validation frameworks, delivering £350K+ annual savings and reducing manual effort by 50 FTEs.
- Architected and implemented a context-aware RAG Answer Engine featuring source-grounded responses, retrieval optimization, conversational memory, and prompt engineering techniques to improve analyst productivity and information discovery.
- Spearheaded a multi-agent AI proof-of-concept for financial document intelligence, securing regional executive sponsorship and influencing future AI adoption strategy across the organization.
- Collaborated closely with Product Managers, Program Managers, Product Owners, and business stakeholders to define project priorities, evaluate solution approaches, align roadmaps, and maximize business impact.
- Drove experimentation and evaluation efforts across AI initiatives, establishing success metrics, validating hypotheses, comparing alternative approaches, and guiding technical decision-making.
- Acted as a primary presenter during client demonstrations, executive reviews, and stakeholder engagements, translating complex AI capabilities into business value and gathering feedback to shape product direction.
- Delegated responsibilities across team members, coordinated execution of project deliverables, and supported effective resource utilization while maintaining delivery timelines.
- Championed engineering excellence by driving code reviews, improving coding standards, encouraging reusable design patterns, and promoting best practices for maintainability and scalability of AI solutions.
- Participated actively in Agile delivery processes including sprint planning, backlog refinement, story estimation, roadmap discussions, and release planning to ensure predictable and efficient execution.

London Stock Exchange Group

Data Scientist

Bangalore, India

Nov 2019 – Oct 2022

- Korean regulatory filing extraction: 85%+ hit rate, £250K+ savings, 5 FTE reduction, time-to-market cut from 15 days to 40 mins across 130K+ documents.
- Hybrid ML + rule-based ingestion (cosine similarity, two-stage classification) across CA, IN, US, AU — saved 3 FTEs, cut out-of-scope data by 50%.
- Two-stage document intelligence pipeline (Azure Layout Model + Python rules) — expanded image-based coverage from 0% to 64%, eliminating 5 FTEs.

State Street Global Advisory

Reconciliation Analyst

Bangalore, India

Feb 2017 – Oct 2019

- Directed daily multi-currency cash, position, and derivative reconciliations for 100+ EMEA-region managed pension funds using Bloomberg Terminal and Smart-Stream TLM; resolved complex FX and corporate action exceptions to ensure ledger integrity.
- Partnered with PMs and custodians for real-time liquidity reporting and NAV oversight; developed PowerBI exception-trend dashboards that later shaped AI automation solutions at LSEG.
- Deep institutional knowledge of equity, commodity, and derivative markets (including MtM futures), cross-custodian workflows, and post-trade settlement — providing the domain foundation for production AI systems at LSEG.

Key Projects

Smart Note Chrome Extension

LLM-powered YouTube note-taking with real-time summarisation.

LLaMA 3.1 8B Fine-tuning

Domain-adapted via Unsloth QLoRA; ~60% faster than standard PEFT.

MLOps Query Classifier

CI/CD/CML pipeline with drift monitoring & auto-retraining.

BERT from Scratch

MLM pre-training; fine-tuned on Stanford Sentiment Treebank.

Education

ISME

PG Diploma, Finance & Operations

Bangalore, India

2015 – 2017

Silicon Institute of Technology

B.Tech, Mechanical Engineering

Odisha, India

2010 – 2014

Certifications

PG Programme in Data Science, INSOFE / Carnegie Mellon

Complete MCP Developer Guide, Udemy

Machine Learning in Production, Andrew Ng, Coursera

Six Sigma Green Belt, KPMG