



Siddharth Chakraborty *AI Engineer*

✉ siddharth.official4567@gmail.com

☎ +91 8159959984

📍 Bengaluru

🌐 Siddharth Chakraborty

🔄 siddharthofficial

▶ MLOps

👤 PROFILE

Accomplished AI Engineer with 4.5+ years of experience specializing in Generative AI, RAG systems, and enterprise-scale ML solutions. Proven expertise in designing and deploying end-to-end AI applications using LangChain, OpenAI, and cloud platforms. Strong background in MLOps, document processing, and intelligent query systems. Demonstrated ability to translate complex business requirements into scalable AI solutions while leading cross-functional teams in fast-paced environments.

🧠 SKILLS

Languages: Python, SQL, KQL, PHP, C++, JavaScript

AI/ML Frameworks: LangChain, LangGraph, OpenAI SDK, Pydantic, TensorFlow, PyTorch, Keras, Scikit-Learn, OpenCV

Technical skills: RAG Systems, GenAI, NLP, Computer Vision, Transformer Models, CNNs, Time Series, AWS, Azure

MLOps: Apache Airflow, Grafana, MLFlow, Model Monitoring, EDA(Pandas, NumPy, SciPy, Seaborn, Matplotlib)

Databases: MongoDB, SQL Server, Vector Databases(Pinecone, MongoDB Atlas,FAISS, ChromaDb)

Tools: Git, Postman, Jupyter, VS Code, Streamlit, DevOps(Docker, Kubernetes, Jenkins),JIRA, Confluence, SDLC, Power BI, MS Fabric

Multilingual: English, Hindi, Bengali, Odia, Kannada, Telugu

📁 PROFESSIONAL EXPERIENCE

Capgemini Technology Services Ltd., Senior AI Developer

Feb 2025 – present | Bengaluru, India

Legal Document Intelligence and Enterprise AI solutions

- Architected comprehensive **RAG** system for **BPIFrance** processing 1000+ PDFs and **Confluence** database using **LangChain**, **OpenAI GPT-4**, **AWS Textract**, and **MongoDB Atlas**
- Built end-to-end AI pipeline with sophisticated prompt engineering and **Langfuse integration for LLM observability and performance monitoring**
- **Optimized processing pipeline** achieving **3x faster** document ingestion through parallel processing and async operations
- **Deployed** enterprise-ready applications with **Streamlit** frontend using **Jenkins CI/CD**, **Docker** containerization, **Kubernetes** orchestration, and **OAuth2** SSO on **IBM Tanzu** cloud infrastructure
- Designed pipelines and **hosted** apps using official Docker images as **N8N** and **AnythingLLM** on **IBM Tanzu** integrating **PostgreSQL** and **pgvector**

Tata Consultancy Services Ltd. (Digital Cadre), AI/ML Engineer

May 2021 – Feb 2025 | Bengaluru, India

Wealth Management Analytics & Enterprise AI Solutions

- Developed analytics platform (ZoneToWin) using **Power BI** serving **50+ wealth management clients**
- Implemented **MLOps** infrastructure using **Apache Airflow** orchestration, **MLFlow** model versioning, and **Grafana** monitoring with automated CI/CD pipelines
- **Deployed computer vision solutions** using **Faster R-CNN** and **TensorRT** on **NVIDIA Jetson Orin** achieving **sub-100ms inference**
- Architected AI solutions on Microsoft Azure: QnA Maker, AI Search, Document Intelligence integration and deployed on MS Teams
- Built conversational AI agents leveraging **foundation models (Anthropic Claude, AWS Titan)** via **AWS Bedrock** for advanced image-to-text generation

mPokket, Software Engineer Intern

Jul 2020 – Dec 2020 | Kolkata, India

FinTech AI & Backend Development

- Built AI-powered e-KYC system using **CNN**, **OpenCV**, and **TensorFlow** achieving 98% face recognition accuracy with secure document verification pipeline reducing manual processing by 60%
- Developed **RESTful** APIs using **CodeIgniter (PHP)** for financial data management with comprehensive **SQL** database integration and **Postman** API testing ensuring robust security standards

🎓 EDUCATION

Bachelor of Technology, Silicon Institute of Technology

2017 – 2021 | Bhubaneswar, India

Electronics and Communication Engineering
Biju Patnaik University of Technology, Rourkela
CGPA: 8.46
Member of Student's Council

Higher Secondary, ODM Public School

2015 – 2017 | Bhubaneswar, India

Computer Science
Grade: 91%

📜 CERTIFICATES AND ACHIEVEMENTS

Microsoft Certified: DP-600 Fabric Analytics Engineer Associate | AI-102 Azure AI Engineer Associate

AWS Certified: AWS Cloud Practitioner

Capgemini: Annual **Impact** award for the "BEST BUSINESS VALUE DRIVEN"