SAI AKHIL TEKURI

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EDUCATION

New York University, Tandon School of Engineering, Brooklyn, New York   09/2023 - 05/2025
Master of Science, Computer Science, GPA: 3.889

Indian Institute of Technology Bombay, Mumbai, India   08/2018 - 05/2022
Bachelor of Technology with Honors, Computer Science and Engineering

SKILLS

- C++ | Python | Java | Scala | JavaScript | SQL | NodeJS | React | PostgreSQL | MongoDB | ClickHouse | Elasticsearch
- PyTorch | TensorFlow | LangGraph | LangChain | LLM | RAG | ChromaDB | Scikit-learn | OpenCV | PySpark | Kafka
- ETL | Data warehouse | AWS Microservices | Kubernetes | Docker | GenAI | Backend Development | Jira | Git | Github

EXPERIENCE

Gen AI Engineer | *Infinite Computer Solutions, Texas, U.S.A*   06/2025 - Present
- Designed **agentic AI system** for **Verizon** to automate the **SDLC workflow**, improving feature delivery speed by **40%**
- Created an **autonomous agent** with **LangGraph** to generate feature specifications from the business requirement doc with **70%** accuracy, leveraging a **Graph RAG pipeline** over a **Neo4j** enterprise knowledge graph with **20M+ nodes**
- Integrated a **conversational AI** assistant to support **system architects** and **dev teams** in refining the generated feature
- Achieved **context-aware, multi-session memory** assistant by integrating LangGraph checkpointers with PostgreSQL

Engineering Intern | *SecurityScorecard, New York, U.S.A*   01/2025 - 04/2025
- Built an **AI chatbot system** using **LangGraph** and **Claude 3.5 Sonnet** to **explain** and **contextualize** security scores
- Developed **RESTful APIs** in **Scala** to fetch score inputs, score outputs, and scoring context from **S3** and **ClickHouse**
- Integrated **custom tools** with Claude to improve **response accuracy** and to provide **clear insights** into security scores

AI Engineer Intern | *Radical AI, New York, U.S.A*   05/2024 - 08/2024
- Built an AI teaching assistant using **LangChain**, **Gemini 1.5 Pro**, and **ChromaDB** to generate concept-based quizzes
- Enhanced the AI's capability to support **15 new document types** by integrating **custom document loaders** in **Python**

Machine Learning Specialist | *AI for Scientific Research, New York, U.S.A*   01/2024 - 05/2024
- Researched the dynamics of domain walls over time in anti-ferromagnetic magnets using **Python**, **PyTorch**, **OpenCV**
- Designed a **supervised CNN model** for precise **segmentation** of domain walls in video frames, achieving **0.95 IoU**

Computer Vision Recruit | *NYU RoboMaster Team UltraViolet, New York, U.S.A*   09/2023 - 12/2023
- Delivered **traditional object detection** model by extracting **SIFT features** in images and **nearest neighbor** mapping
- Reduced the **inference time** by **50%** with **80%** bounding box accuracy compared to the pre-trained **YOLOv5** model

Software Development Engineer | *Adobe Inc., Bangalore, India*   06/2022 - 07/2023
- Implemented **AWS-based** data ingestion by integrating 4 sources using the **ETL process** to build a **data warehouse**
- Revamped internal tools using **Scala**, **Docker**, and **Jenkins**, resulting in a **10% reduction** in **data processing time**
- Conducted in-depth analysis of **data marts and data vaults**, extracted **business insights**, and reduced cost by **10%**

PROJECTS

Multi-Tenant DBaaS with Automated Migrations | *Cloud Computing*   10/2024 - 12/2024
- **Architected** and **developed** a scalable multi-tenant Database-as-a-Service framework with asynchronous migrations
- Leveraged **AWS Lambda, EC2, DynamoDB, SQS** to implement serverless workflows with **database-level isolation**

Predictive Modeling for Solar Energy Production in Europe | *Big Data*   02/2024 - 05/2024
- Trained a **Gradient Boosting Regressor** using **PySpark MLlib** to predict solar energy, attained a **RMSE** of **0.236**
- Engineered real-time solar data streaming with Kafka for solar energy forecasting, visualized using Tableau dashboard

Ethereum Fraud Detection | *Machine Learning*   09/2023 - 12/2023
- Executed **pre-processing** and experimented with **Decision Trees, and AdaBoostClassifier** models using **Scikit-learn**
- Trained **Neural Network** model in **PyTorch** to build an Ethereum transaction classifier with a high **F1 Score** of **0.96**