

KAMRAN SHAIKH

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EXPERIENCE

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| Biz Technologies - (Decentrawood) AI/ML Engineer | September 2025 – Present Mumbai |
| <ul style="list-style-type: none">Built and deployed AI/ML solutions using the Gemini API for multimodal generation (image, video, music).Designed and optimized cryptocurrency price prediction models using time-series forecasting and deep learning (LSTM/GRU) to perform predictive market analysis.Developed NLP pipelines for text understanding and conversational AI use cases, including preprocessing, feature extraction, and model integration.Implemented and optimized Text-to-Speech (TTS) models for voice-enabled applications, focusing on speech quality and inference efficiency.Fine-tuned the DeepSeek R1 Large Language Model for domain-specific conversational and reasoning tasks, improving response accuracy and task alignment.Designed and developed scalable backend services (REST APIs) to serve AI/ML models, handling authentication, inference orchestration, and logging.Designed and developed scalable backend services (REST APIs) to serve AI/ML models, handling authentication, inference orchestration, and logging.Built and deployed AI/ML and Generative AI solutions on AWS, leveraging cloud services for scalability, monitoring, and production-grade reliability. | |
| HealthIndia Insurance TPA Services Pvt. Ltd Machine Learning Engineer | April 2024 – September 2025 Mumbai |
| <ul style="list-style-type: none">Developing AI/ML solutions for automating healthcare document processing, including claims forms, bills, and medical reports.Building end-to-end NLP and computer vision pipelines using YOLO, Azure OCR, and LLMs (LLaMA, GPT) for data extraction and classification.Designing scalable tools for automating NEFT extraction, CCN generation, and invoice digitization using Python, FastAPI, and OpenAI.Collaborating with cross-functional teams to deploy models and tools into production environments, improving operational efficiency and accuracy. | |
| DG Market Python Developer | Apr 2023 – Apr 2024 Mumbai |
| <ul style="list-style-type: none">Built Python-based automation tools and APIs for data extraction, transformation, and reporting.Developed robust pipelines for scraping, processing, and storing large datasets used in global tender analytics. | |
| Ardentisys-Tebillion Associate Engineer | October 2022 – March 2023 Mumbai |
| <ul style="list-style-type: none">Contributed to the development of business automation solutions, focusing on backend logic, API integrations, and process optimization using Python and automation tools. | |

- Supported product teams in building scalable software modules for client-driven enterprise solutions.

SKILLS

- LLMs & AI Agents: Fine-tuning, Retrieval-Augmented Generation (RAG), Tool-using Agents, Chatbots, LLM Prompts, GPT-4, LLaMA, Gemma, Bloom, Ollama, LangChain, LangGraph, ChromaDB, FAISS
- Machine Learning & Deep Learning: Supervised/unsupervised ML, neural networks, CNNs, LSTMs, GANs, Decision Trees, Random Forest, Gradient Boosting (XGBoost), Support Vector Regression (SVR), Libraries: Scikit-learn, TensorFlow, PyTorch, Keras
- NLP & Document AI: Named Entity Recognition (NER), Text Classification, OCR, Document Parsing, Tools: SpaCy, BERT, Azure OCR, Tesseract, OpenCV, YOLO, Stable Diffusion
- Programming & Automation: Languages: Python, SQL, Tools: Pandas, NumPy, Selenium, Regex, FastAPI
- Deployment & Infrastructure: Experience with cloud and on-prem environments, AWS EC2 & S3, Linux servers, MongoDB
- Data Engineering: Web scraping, data pipelines, SQL-based data storage and integration, SQL, ER diagrams, data validation checks

PROJECTS

Document Classification System YOLO, CNN, LSTM, GRU, Python

Automated classification of insurance claim documents using a multi-stage pipeline combining object detection, image classification, and text classification.

Auto NEFT Extraction YOLOv8s, Tesseract OCR, Python

Extracted NEFT data from scanned cheques using object detection, OCR, and regex-based postprocessing for structured output.

Auto CCN Generation YOLO, Azure OCR, LLM (LLaMA/Gemma), Python

Developed an AI pipeline to extract data from healthcare claim forms and generate Control Claim Numbers (CCNs) automatically.

Auto Bill Entry System LLaMA 3.1, Python

Built a system to extract structured data from invoices and generate JSON outputs for seamless database integration.

Aadhaar Card Masking Tool YOLOv8s, OpenCV, Python

Designed a privacy tool to detect and redact Aadhaar numbers from scanned documents using real-time object detection.

Medical NER System SpaCy, BERT, Python

Trained custom NER models to extract patient names, diagnoses, treatments, and doctor information from medical records.

ITVx – Web Scraper & Data Pipeline Selenium, Python, AWS S3, SQL

Built an automated web scraper and data pipeline to extract, clean, and store structured data.

Chatbot with Memory GPT-API, LangChain, OpenAI, Python

Created an intelligent chatbot using LangChain agents capable of memory, context retention, and tool usage.

PDF Chatbot LangChain, ChromaDB, OpenAI, PyMuPDF

Built a document Q&A chatbot that can ingest and answer questions from PDF files.

Sentiment Analysis CountVectorizer, Scikit-learn, Python

Implemented a machine learning model to classify customer sentiments in product reviews.

Face Recognition Attendance System OpenCV, Dlib, Python

A real-time facial recognition system for automated employee attendance tracking.

Stock Market Prediction Python, Pandas, Matplotlib, LSTM

Developed a predictive analytics platform combining deep learning and machine learning models to analyze cryptocurrency market trends and visualize forecasts and building real-time trading bots

Multimodal Generative AI Platform Gemini API, Python, FastAPI, AWS, MongoDB

Built an end-to-end multimodal AI platform enabling text-to-image, image-to-video, and music generation using the Gemini API, with backend APIs for request handling, metadata storage, and inference orchestration.

LLM Fine-Tuning & Deployment System (DeepSeek R1) DeepSeek R1, PyTorch,

Hugging Face, AWS, MongoDB

Worked with cloud-based GPUs (NVIDIA A100, T4, RTX 4090) to train, fine-tune the DeepSeek R1 Large Language Model on domain-specific datasets and deployed it as a scalable inference service, enabling accurate reasoning and conversational AI for enterprise use cases.

AI Inference Backend & Model Serving Platform FastAPI, Docker, AWS ECS, MongoDB

Designed and implemented a backend system for serving multiple AI models (LLMs, CV, NLP), including request routing, versioning, logging, and performance monitoring.

EDUCATION**M.H. Saboo Siddik College of Engineering**

2015 – 2021

B.E. in Electronics Engineering

Mumbai

Thakur Polytechnic College of Engineering

2012 – 2015

Diploma in Electronics Engineering

Mumbai

CERTIFICATIONS**Master's Certification in Data Science**

Covered machine learning, deep learning, NLP, Python, and real-world data science projects.