Kamran Shaikh

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Experience

HealthIndia Insurance TPA Services Pvt. Ltd — Mumbai
Machine Learning Engineer — April 2024 - Present

- 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 — Mumbai
Python Developer — Apr 2023 - Apr 2024

- 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 — Mumbai
Associate Engineer — October 2022 - March 2023

- 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, Chatbot
Machine Learning & Deep Learning:	Supervised/unsupervised ML, neural networks, CNNs, LSTMs, GANs, Libraries: S
NLP & Document AI:	Named Entity Recognition (NER), Text Classification, OCR, Document Parsing, T
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,
Data Engineering:	Web scraping, data pipelines, SQL-based data storage and integration, SQL, ER d

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*
Used time series forecasting techniques to predict future stock prices for cryptocurrency (Bitcoin).

EDUCATION

M.H. Saboo Siddik College of Engineering	Mumbai
B.E. in Electronics Engineering	2015 - 2021
Thakur Polytechnic College of Engineering	Mumbai
Diploma in Electronics Engineering	2012 - 2015

CERTIFICATIONS

Master's Certification in Data Science
Covered machine learning, deep learning, NLP, Python, and real-world data science projects.