JIGNESH SHIYAL
Data Scientist

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Portfolio website: https://jigneshshiyal.github.io/

SUMMARY

Data Scientist with **3 years** of experience building **AI/ML-powered production systems** in NLP, Speech Recognition, Computer Vision, and Document Intelligence. Strong expertise in fine-tuning transformer models (**OpenAI Whisper, DistilBERT, CLIP**), optimizing inference with **ONNX**, **CTranslate2**, and deploying scalable pipelines using **Docker, FastAPI, Kubernetes**, and **AWS**.

SKILL

Languages: Python, SQL, JavaScript
Cloud & Monitoring: AWS (EKS, EC2, S3), Grafana, Loki
Machine Learning / Deep Learning: Whisper, DistilBERT, CLIP, CNNs, ONNX, CTranslate2, Face Recognition, Table Extraction, Image Embeddings, Mediapipe, Speech-to-Text, Text Classification, Semantic Search, Transformers
Backend & Deployment: FastAPI, Streamlit, Docker, Kubernetes (AWS EKS), RabbitMQ
Databases: ChromaDB, PostgreSQL, Vector Database

WORK EXPERIENCE

CREDITT+   INDIA
Data Scientist   Jan 2024 – Present
- Bank Statement Analysis – **AI pipeline** (Table Transformer + DistilBERT), **4× faster**, **35% cost savings**, no third-party APIs. in Face Matching (KYC), use CNN + Mediapipe verification, **40% faster**, **25% more accurate** onboarding.
- Video-Audio Compliance – Real-time system (Face Recognition + Whisper), **2× lower latency**, **20% better accuracy**, no external providers.

CYBERCOM CREATION   INDIA
Software Engineer   Aug 2023 - Jan 2024
- Developed time-series demand **forecasting models** and product-matching pipelines **(MobileNet, InceptionNet)**, improving inventory **accuracy by 30%** and reducing manual catalog effort by **50%**.
Software Engineer intern   Feb 2023 - Aug 2024
- Developed an event management system with Django + JavaScript to handle scheduling and registrations. Integrated Razorpay payments for real-time, secure transactions.

PROJECTS

FACEKYC - [Mediapipe, Javascript, Face-matching, ChromaDB]   [Github Link]
- Browser-based **KYC verification system** with selfie guidance and face matching. **JavaScript**-driven frontend captures user selfies and guides framing and alignment.

SMARTRESUMEAGENT - [Langchain, Langfuse, FastAPI, ChromaDB, Javascript]   [Github Link]
- AI-powered **multi-agent** resume customizer that extracts, ranks, and tailors resumes to job descriptions with ATS-aware optimization

FASTTUNEWHISPER - [Pytorch, Whisper, CTranslate2, FastAPI, Streamlit]   [Github Link]
- Production-ready speech-to-text system **fine-tuned** on **Whisper** (small), optimized using **CTranslate2**, with **FastAPI** backend and Streamlit frontend. Word Error Rate (**WER**) dropped from **~114.75% to ~55.60%** post fine-tuning.

EDUCATION

GOVERNMENT ENGINEERING COLLEGE BHAVNAGAR [B.E - 8.7/10.0]   Jul 2019 - Jul 2023

ACHIEVEMENT

AZADI KA AMRIT MAHOTSAV HACKATHON - 2022