

# JIGNESH SHIYAL

## Data Scientist

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

### SUMMARY

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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

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**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

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#### CREDITT+

INDIA

Data Scientist

Jan 2024 – Present

- Bank Statement Analysis – **AI pipeline** (Table Transformer + DistilBERT), **4x 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), **2x 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

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#### 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

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#### GOVERNMENT ENGINEERING COLLEGE BHAVNAGAR [ B.E - 8.7/10.0 ]

Jul 2019 - Jul 2023

### ACHIEVEMENT

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#### AZADI KA AMRIT MAHOTSAV HACKATHON - 2022