

# Ahmad Hassan Akhtar Chughtai

## CONTACT

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## CAREER OBJECTIVE

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Applied Machine Learning professional with **1.5 years** of experience in developing **AI-driven solutions**. Proficient in frameworks like **Huggingface**, **Langchain** and **PyTorch**, with a strong focus on delivering efficient, scalable, and impactful results using cutting-edge technologies.

## SKILLS & TOOLS

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**Programming Languages:** Python

**Frameworks & Libraries:** TensorFlow, PyTorch, HuggingFace, LangChain, SadTalker

**Concept / Techniques:** RAG, Voice Cloning

**Tools & Technologies:** OpenCV, Tesseract OCR, Llama3 Vision, Jupyter Notebook, Google Colab, ElevenLabs

**Deployment & Platforms:** Flask, FastAPI

## EXPERIENCE

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- **FastNexa Pvt Ltd**

**Applied Machine Learning Engineer**

- Built a real-time face tracking and auto-capturing system for attendance using Flask and Flutter
- Implemented emotion-aware object-face analyzer for non-real-time systems
- Worked on OCR for ID/passport text extraction and ATS (Application Tracking System) solutions
- Utilized Huggingface, Langchain, and RAG applications in multiple AI-driven solutions

## PROJECTS

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- **Autism Spectrum Disorder (ASD) Detection**

Developed a deep learning system to detect ASD in children by analyzing facial features.

Integrated a chatbot for informative guidance, aiding both parents and healthcare workers.

- **Object Detection with YOLO & Deepface**

Implemented advanced object detection using YOLO and Deepface for real-time environments.

- **SnapAttend – Real-Time Face Tracking**

Created an automated attendance tracking system using Flask (backend) and Flutter (frontend).

- **Smart Application Tracking System (ATS)**

Engineered an ATS that calculates job-resume compatibility using keyword matching.

- **OCR-Based ID Card & Passport Text Extraction**

Leveraged Llama3 Vision 11B for extracting text from official documents with high accuracy.

- **Data Leakage Control (DLC)**

The project consists of a central server (admin) that manages remote file deployment and process execution, along with a client agent (client-agent) that runs on target machines to handle file uploads, process management, and system monitoring.

- **SadTalker AI**

An open-source solution that animates static images using audio input. It aligns facial movements and expressions in the image with the spoken words from the audio, creating a realistic, lifelike animation.

- **ReSpeak**

The Video Rephraser is an AI-powered application designed to transform video content into rephrased, natural-sounding speech in a different voice. It automates the process of audio extraction, transcription, rephrasing, and re-voicing using a combination of advanced AI models for Speech-to-Text (STT) and Text-to-Speech (TTS).

- **Thoughtmate**

Thoughtmate is a private, AI-powered thinking partner that helps you turn your ideas into action. Whether you're exploring business ideas or planning complex projects, it feels like having a personal workplace coach, not just another chatbot. It's always available, remembers where you left off, and helps move your ideas forward. You can talk or type. Thoughtmate captures tasks and organizes your thoughts as you go.

## EDUCATION

<u>COURSE</u>	<u>YEAR</u>	<u>INSTITUTIONS</u>
BSCS	2024	University of Engineering and Technology, Lahore

## CERTIFICATIONS

<u>COURSE</u>	<u>YEAR</u>	<u>INSTITUTIONS</u>
Artificial Intelligence	Feb 2024	Corvit System Lahore (Akhuwat Project)