

ANSHIKA ARYA

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SUMMARY

AI/ML Engineer with hands-on expertise in multi-modal, deep learning (CV, NLP, audio), and robust backend orchestration using Python, TensorFlow, and PostgreSQL. Passionate about building AI-driven solutions, optimizing models, and solving real-world problems through data science and automation.

EDUCATION

Amity University, Noida

Bachelor of Computer Applications

2023 – 2026

Noida, Uttar Pradesh

KMGPP College, Greater Noida

Diploma in Computer Science and Engg.

2019 – 2022

Greater Noida, Uttar Pradesh

EXPERIENCE

AI/ML Engineer

Tamar Software

June 2024 – June 2025

Noida, UP

- * Developed and implemented machine learning and deep learning models leveraging computer vision, NLP, and LLMs with Python, TensorFlow, OpenCV, and LangChain.
- * Designed and optimized deep learning pipelines, including data preprocessing, feature engineering, and hyperparameter tuning.
- * Managed data annotation workflows, database orchestration with PostgreSQL, and built REST APIs using Flask for seamless deployment.
- * Performed EDA and created visualizations with Pandas, NumPy, Seaborn, and Matplotlib; collaborated via Git/GitHub for version control.

PROJECT

Infant Behavior Analysis System | Python, OpenCV, TensorFlow, MediaPipe

- * Built a multi-modal emotion and pose detection system for infants with 76% accuracy, using Python, OpenCV, TensorFlow, Librosa, and dlib.
- * Implemented facial emotion recognition, pose estimation, integrating early fusion for robust predictions.
- * Utilized pre-trained deep learning models and managed pose classifiers with joblib for real-time posture and emotion classification.
- * Deployed via Flask to deliver actionable insights to caretakers, detecting infant states like hunger, discomfort, and sleepiness.

Telemedicine Virtual Agent | Python, Flask, LLMs, PostgreSQL, LangChain

- * Developed a multi-modal AI healthcare system enabling patients to describe symptoms via text, voice, or images, with diagnosis powered by LangChain, Roboflow, and real-time web search.
- * Integrated voice input/output (SpeechRecognition, pyttsx3) and image-based disease detection using multiple Roboflow ML models for skin, dental, hair, and eye conditions.
- * Implemented critical case escalation by auto-generating Jitsi meet links and sending Twilio SMS to patients and doctors.
- * Built a robust backend with PostgreSQL for patient history and Python-based orchestration, ensuring a seamless, intelligent telemedicine experience.

TECHNICAL SKILLS

- Programming Languages & Databases: **Python, SQL, PostgreSQL**
- ML/DL Frameworks: **TensorFlow, Pytorch, Keras, Scikit-Learn**
- Computer Vision: **OpenCV, YOLO, MediaPipe, Image Segmentation, PaddleOCR**
- NLP & LLMs: **OpenAI, Mistral, LangChain, DuckDuckGo Search, SerpAPI**
- Data Analysis & Visualization: **Pandas, NumPy, Seaborn, Matplotlib**
- Tools & Platforms: **Git, GitHub, Jupyter Notebook, CVAT, Flask, Django**
- Methodologies: **Supervised/Unsupervised Learning, CNN, ResNet, Data Preprocessing**