

MANTHAN JADAV

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AI/ML Developer skilled in designing and deploying intelligent systems for NLP, Computer Vision, and automation. Experienced with Python, TensorFlow, PyTorch, and API-based integrations using FastAPI. Strong understanding of transformer models (BERT, GPT) and practical LLM implementation. Adept at delivering scalable solutions that enhance efficiency and business outcomes.

EXPERIENCE

Machine Learning Intern – Fxix AI (Full-Time) | [Certificate](#) *January 2025 – April 2025*

- Developed and documented AI systems including a face recognition model (ArcFace + MTCNN) with **90%+ accuracy**.
- Innovated an **AI chatbot** that reduced manual intervention by **90%**, improving efficiency and engagement by **35%**.
- Coordinated cross-functional teams in **Agile sprints**, achieving 100% on-time milestone delivery.

Data Analytics Intern – Infolabz IT Services (Project-Based) | [Certificate](#) *January 2025 – April 2025*

- Automated **API-based ETL pipelines in Python**, cutting manual data processing by **90%**.
- Developed customizable dashboards in **Power BI** and enabling **stakeholders** to generate **instant business insights** and reducing report turnaround time from **2 days to a few minutes**.

ACADEMIC PROJECTS

Face Dark Spot & Eye Detection

[Link](#)

- Implemented **real-time optimized inference (<0.2 s/frame) detection** of faces, eyes, and under-eye dark spots with **~95% accuracy**.
- Created a custom edge-based scoring system for **cosmetic or medical severity analysis**.
- **Tech:** Python, OpenCV, Haar Cascade, NumPy.

Resume Hub

[Link](#)

- Programmed an **AI recruiting assistant** using **Gemini LLM** that parses resumes and matches them to JD through transformers-based semantic similarity.
- Highlights missing keywords and provides **AI-generated improvement suggestions** for candidates.
- **Tech:** Python, Flask, Google Gemini API, TF-IDF, scikit-learn, Tailwind CSS, PyPDF2.

Smart Healthcare Hub

[Link](#)

- Built an end-to-end ML pipeline for multi-disease prediction (Diabetes, Heart, Cancer, Skin, Lungs, Parkinson's, etc.) with **92 % accuracy**.
- Integrated an **LLM-powered medical chatbot** to provide symptom analysis and personalized health recommendations.
- **Tech:** Python, Flask, TensorFlow, Scikit-learn, Pandas, NumPy, HTML/CSS.

Pix2Caption

[Link](#)

- Trained a **DenseNet-201 CNN + LSTM decoder** on **8000+ images** to generate natural-language captions for any upload.
- Enhanced with a **Streamlit** interface for real-time caption generation and **caption download support**.
- **Tech:** Python, TensorFlow, DenseNet201, CNN, LSTM, Streamlit.

Snacky

[Link](#)

- Streamlined food ordering, modification, and tracking, cutting **manual support by 90 %**.
- Improved conversation flows to **increase order completion rate by 30 %**.
- **Tech:** Python, FastAPI, Dialogflow, MySQL, REST APIs.

EDUCATION

Bachelor of Engineering (Computer Science)
Gujarat Technological University

October 2021 – May 2025
CGPA 8.18 /10

SKILLS

- **Programming:** Python, SQL, Flask, FastAPI, Django
- **Machine Learning / Deep Learning:** TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, Transformer Architectures (BERT, GPT)
- **Model Deployment:** End-to-end ML/DL pipeline: Preprocessing, Training, Model Optimization, Evaluation, Deployment, REST API integration.
- **AI Solutions:** NLP, Computer Vision, Chatbots, Recommendation Systems,
- **LLMs API:** OpenAI API, Gemini API, Groq API.
- **Data Management:** Pandas, NumPy, ETL pipelines, API-based ingestion.
- **Database management:** SQL(MySQL), NoSQL(MongoDB).
- **Collaboration/Development:** Git, GitHub, CI/CD basics, code reviews.
- **Teamwork & Communication:** Effective cross-functional collaboration, Agile project delivery.
- **Language:** Hindi (Bilingual Proficiency), English (Working Proficiency), Gujarati (Native Speaker).

CERTIFICATIONS

- Accenture North America: Data Analytics and Visualization – [View Credentials](#)
- Tata GenAI Powered Data Analytics Job Simulation – [View Credentials](#)
- Make an Impact with Data Analytics by IBM – [View Credentials](#)
- Python for Data Science Course on NPTEL – [View Credentials](#)