

Krushal Kalkani

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Education

Florida Atlantic University (FAU)

Aug 2024 – May 2026

Master of Science in Computer Science; GPA: 3.5/4.0

Boca Raton, Florida

- **Relevant Coursework:** Machine Learning, Deep Learning, Reinforcement Learning, Natural Language Processing, AI & ML in Production, Data Science

Gujarat Technological University (GTU)

Jun 2019 – May 2023

Bachelor of Engineering in Computer Engineering; GPA: 3.8/4.0

Ahmedabad, India

Experience

Florida Atlantic University

Jan 2025 – Aug 2025

Research Assistant

Boca Raton, FL

- Developed real-time depth camera pipeline in Python (Intel RealSense D415, 30 Hz, <40 ms latency), extracting stabilogram metrics including path length, mean velocity, and RMS sway in anteroposterior and mediolateral directions.
- Co-authored MDPI Sensors paper on portable 3D balance assessment, achieving ICC reliability of 0.84-0.96 against lab-based Optotrak system.

Brainvire Infotech Pvt. Ltd.

Feb 2023 – Jan 2024

Software Developer

Ahmedabad, India

- Developed and customized Odoo ERP modules (Python ORM) for sales and inventory workflows, automating business processes for enterprise clients.
- Optimized Hatchet e-commerce platform backend and database queries, improving site performance by 75% and contributing to a 35% revenue lift.
- Built responsive frontend components using JavaScript, Bootstrap, and HTML/CSS, improving user workflow efficiency across enterprise client dashboards.

Projects

Heart Disease Prediction | Python, Scikit-learn, XGBoost | [GitHub](#) | [Live Demo](#)

Mar 2026 – Present

- Built end-to-end ML pipeline on 8,763 patient records, engineering 23 features and benchmarking Logistic Regression, Random Forest, and XGBoost with class-weight balancing to prioritize recall
- Developed interactive Streamlit web app for real-time heart disease risk prediction and deployed to Hugging Face Spaces using Docker containerization

Smart Resume Analyzer | Python, Scikit-learn, TF-IDF | [GitHub](#) | [Live Demo](#)

Feb 2026 – Present

- Built NLP pipeline on 2,484 labeled resumes across 24 job categories using TF-IDF vectorization; benchmarked Logistic Regression, Random Forest, and SVM with macro F1-score evaluation
- Engineered keyword-based skill extraction module and deployed Streamlit app on Hugging Face Spaces with PDF upload support for real-time category prediction and skill gap recommendations

Technical Skills

Languages: Python, JavaScript, SQL

ML / AI Frameworks: Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, NLTK, OpenAI API

ML Concepts: Deep Learning (ANN, CNN), NLP, LLMs, Ensemble Methods, Feature Engineering, Cross-Validation, Hyperparameter Tuning, Hugging Face Transformers

Data & Web: NumPy, Pandas, SciPy, Matplotlib, Seaborn, FastAPI, Streamlit, React, Node.js, REST APIs

Developer Tools: Git, GitHub, GitHub Actions, Docker, VS Code, Jupyter, Google Colab, Linux, MySQL

Certifications

Machine Learning Specialization | *DeepLearning.AI – Stanford Online*

Generative AI with Large Language Models | *DeepLearning.AI – AWS*

Retrieval Augmented Generation (RAG) | *DeepLearning.AI*

Agentic AI | *DeepLearning.AI*

Machine Learning in Production | *DeepLearning.AI*

Leadership

Elite Owl Ambassador

Mar 2025 – May 2026

FAU Weppner Center for LEAD and Service-Learning

Boca Raton, FL

FDS of the Year – Innovation Village Apartments South

Aug 2024 – May 2026

FAU Housing and Residential Education

Boca Raton, FL