

Unnati Tank

AI/ML Enthusiast

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Summary

AI/ML Engineering student with hands-on experience building and deploying full-stack AI applications. Developed RAG-based chatbots during an internship at Infynno Solutions and built cross-platform Flutter applications integrated with deep learning models. Proficient in Python, modern ML frameworks, and data structures with strong problem-solving capabilities.

Education

Bachelor of Technology in Artificial Intelligence and Machine Learning
CSPIT, Charotar University of Science and Technology, Anand, India

CGPA: 8.17
Expected Graduation: 2027

Relevant Coursework

- Data Structures
- Machine Learning
- Database Management
- Data Science
- Algorithm Analysis
- Data Analysis
- Artificial Intelligence
- Problem Solving

Skills

- **Languages:** Python, Dart, Java, C, C++
- **Frameworks/Libraries:** Flutter, Scikit-learn, PyTorch, TensorFlow, Pandas, NumPy
- **Tools & Platforms:** Git, GitHub, VS Code, Jupyter, Google Colab, Power BI, Tableau
- **Soft Skills:** Critical Thinking, Project Management, Time Management, Teamwork, Communication

Experience

AI Intern – Infynno Solutions LLP, Ahmedabad [\[GitHub\]](#)

May 2025 – June 2025

- Developed SmartChat, a document-aware AI chatbot using TinyLlama integrated with Retrieval-Augmented Generation (RAG) for context-aware responses.
- Implemented real-time document upload, vector-based similarity search using FAISS, and dynamic responses via Gradio UI.
- Collaborated with the development team to optimize chatbot response time by 30% and enhance user experience.

Projects

Indian Constitution Vault [\[GitHub\]](#) [\[Play Store\]](#)

- Built an offline Flutter Android app providing instant access to 2,000+ sections across BNS, BNSS, BSA, and Indian Constitution with no internet required.
- Implemented category-based Law Finder across 11 legal domains, bookmarks with local persistence, and Text-to-Speech with legal abbreviation expansion.

SleepyTales – Bedtime Stories & Sleep Music [\[GitHub\]](#) [\[Download\]](#)

- Built a Flutter Android app featuring 30+ illustrated bedtime stories with AI-powered Text-to-Speech narration, 8 procedurally generated sleep music tracks, and nursery rhymes – all playable offline.
- Implemented category-based story browsing, persistent favorites, dark/light theme switching, and a dedicated sleep music player using `just_audio`; managed app state with Provider.

Myopia Risk Prediction System [\[Ongoing\]](#) [\[GitHub\]](#)

- Built a 3-stage ML pipeline (refractive error detection → risk classification → diopter prediction) on 5,000 pediatric records using XGBoost and Gradient Boosting; achieved ROC-AUC 0.88 and 81.2% accuracy.
- Engineered 35 features across behavioral, genetic, and lifestyle domains with permutation-importance explainability to identify key risk factors.
- Developed a full-stack screening web app (React, TypeScript, Tailwind CSS) with a 4-step intake form, real-time risk gauge, and personalized recommendations.

AquaVision – Fish Species Classifier [\[GitHub\]](#)

- Developed a cross-platform Flutter Android app integrated with FastAPI backend serving an EfficientNet-B0 deep learning model for fish identification.
- Implemented camera integration, real-time image classification, and similarity search with confidence scores.
- Designed a modern Material Design UI with smooth animations and intuitive user interactions.

Certifications

- **NPTEL:** Data Structures and Algorithms with Java, Database Management System, Introduction to Machine Learning
- **Coursera:** Neural Networks and Deep Learning, Machine Learning with Python, MERN Stack Front To Back