

TEJAS LAMBA

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Education

Maharishi Dayanand University

Bachelor of Technology in Computer Science Engineering with Specialization in AI/ML

Aug. 2023 – Present

Rohtak, Haryana

Amity Indian Military College

12th Grade (Non-Medical)

Feb 2022 – Mar 2023

Gurgaon, Haryana

The Indian Heights School

10th Grade (Standard Maths and French)

Apr 2020 – Jan 2021

Dwarka, New Delhi

Relevant Coursework

- Data Structures
- Machine Learning
- Artificial Intelligence
- Deep Learning
- Database Management
- Object-Oriented Programming
- Web Development
- Software Engineering
- Computer Networks
- Natural Language Processing
- Real-time Systems
- Vector Databases

Experience

STMicroelectronics

Embedded AI & Systems Engineering Intern

May 2026 – July 2026

Noida, Uttar Pradesh, India

- Engineered low-power embedded AI firmware on STM32U5 microcontrollers with X-CUBE-AI, X-CUBE-MEMS1, and NanoEdge AI Studio; deployed on-device data loggers and anomaly detection models for industrial MEMS sensors.
- Built a real-time computer vision system for Tic-Tac-Toe on an STM32MP257 microprocessor running OpenSTLinux; trained a YOLO11 model for grid cell state classification and used OpenCV for camera perspective correction and grid segmentation.
- Programmed a Tic-Tac-Toe game engine using a Minimax search algorithm with temporal vote smoothing; wrote serial communication drivers to coordinate moves with a robotic arm for physical gameplay.

Rudescape

Fullstack Developer

October 2025 – November 2025

United States (Remote)

- Built and maintained backend APIs using TypeScript for high-performance applications.
- Designed database structures in PostgreSQL and optimized slow queries to improve API response times.
- Used Prisma ORM to run type-safe queries and manage database schema migrations.
- Worked with product managers and front-end developers to plan and release new application features.

JK Technosoft Ltd.

IT Intern

July 2025 – October 2025

Noida, Uttar Pradesh, India

- Supported enterprise internal tools and IT infrastructure within the General & Administration sub-department.
- Assisted IT managers with daily support tickets, hardware provisioning, and system access control.
- Maintained active directory accounts and resolved network connectivity issues for 50+ corporate employees.

Projects

DiabetesGuard AI - Clinical Decision Support | *Python, XGBoost, SHAP, FAISS, RAG, DeepSeek V3, Streamlit* 2025

- Developed sophisticated clinical ML system achieving 97.78% ROC-AUC using XGBoost classifier with SHAP explainability for transparent risk assessment in diabetes prediction, built for GDG on Campus Praxis 2.0 Hackathon.
- Implemented RAG architecture with DeepSeek V3 LLM and FAISS vector database for grounded AI responses, enabling real-time query answering from clinical documentation with citation support.
- Engineered comprehensive Streamlit web application with interactive risk factor visualization, feature importance plots, and clinical questionnaire interface for healthcare professionals.

depdoctor - Dependency Management CLI | *TypeScript, Node.js, Commander.js, npm Registry API*

2025

- Developed production-ready CLI tool for automated JavaScript dependency management with intelligent update recommendations and multi-package manager support (npm, yarn, pnpm, bun).
- Implemented semantic versioning safety controls with risk classification, preventing breaking changes while encouraging secure updates through automated analysis of package.json and lockfiles.
- Created modular architecture with concurrent API calls for performance optimization and flexible output formats (table, JSON) for CI/CD pipeline integration.

Multi-Digit Handwritten Recognition System | TensorFlow, Keras, OpenCV, Python

2025

- Developed advanced CNN-based system for recognizing handwritten digits with multi-digit sequence processing, achieving 98.5% accuracy on MNIST dataset with real-time GUI application.
- Designed 6-layer CNN architecture with dropout regularization, optimized for sub-100ms prediction time while maintaining robust performance on diverse handwriting styles.

PokéClassifier AI Photo Analysis | Next.js 14, TypeScript, Google Cloud Vision API, Google Gemini AI

2025

- Developed full-stack AI-powered photo personality analysis web application using Next.js 14, TypeScript, and modern React patterns, serving 930+ Pokémon character matches through advanced facial recognition and machine learning algorithms.
- Integrated Google Cloud Vision API and Google Gemini AI for real-time facial expression detection and personality trait extraction, implementing secure credential management and fallback OCR systems for 99.9% uptime reliability.
- Architected PostgreSQL database with Prisma ORM featuring user role management, authentication sessions, and comprehensive admin dashboard with real-time analytics.

Technical Skills

Languages: TypeScript, Python, Java, JavaScript, HTML/CSS, Swift, SQL

Machine Learning & AI: TensorFlow, Keras, Scikit-learn, OpenCV, Pandas, NumPy, Plotly, Jupyter Notebook, CNN, Computer Vision, Pathway AI, FAISS

Developer Tools: VS Code, Android Studio, Xcode, Git, GitHub, Postman, Docker, Figma, Streamlit

Technologies/Frameworks: React, Node.js, Django, FastAPI, Express.js, Electron, PostgreSQL, MongoDB, MySQL, Prisma, REST API, WebSocket

Cloud & DevOps: AWS, Docker, Kubernetes, Linux, Nginx, Google Cloud Platform

Hackathons & Competitions

CodeSlayer 2k25 - DevSphere India

November 2025

1st Place Winner (Team Deadbits)

NIT Delhi

- Won 1st place among 65 finalists selected from 10,562+ participating teams nationwide, using Pathway AI, Python, FAISS vector database, and FastAPI, demonstrating exceptional problem-solving and technical innovation capabilities.
- Built AI assistant for investors and M&A teams using Pathway and FAISS for efficient vector similarity search, enabling real-time question answering from shared data rooms containing financial statements, contracts, and cap tables with high accuracy citations.
- Implemented dynamic knowledge refresh system with FastAPI backend that updates in real-time as new documents arrive, with exportable summaries and live file integration demonstrations during the hackathon presentation.
- Developed REST API with FastAPI and engineered production-ready architecture leveraging FAISS for semantic search capabilities, streamlining due diligence processes in investment and merger & acquisition scenarios.

Certifications & Achievements

GitHub Open Source Contributions

2024 – Present

Developer Program Member & PRO

github.com/TejasLamba2006

- Earned 223+ total stars across repositories with active community engagement and 188+ commits in 2025.
- Contributed 112+ pull requests demonstrating collaborative development and code review skills.
- Achieved GitHub Developer Program Member status and PRO badge for consistent open source contributions.

Microsoft & LinkedIn Learning

March 2025 – Present

Cybersecurity Certifications

Online

- Completed Career Essentials in Cybersecurity and Cybersecurity Foundations certifications.
- Gained expertise in cybersecurity terminology, threat landscape analysis, and Microsoft Security Copilot.
- Developed comprehensive understanding of cybersecurity awareness and best practices.

HackerRank & IBM

March 2024 – Present

Programming & Professional Skills

Online

- Achieved JavaScript (Basic & Intermediate), Node.js (Basic), and Problem Solving (Basic) certifications.
- Completed IBM Professional Skills and Project-Based Learning and Design Thinking courses.
- Demonstrated proficiency in software development and collaborative problem-solving methodologies.