

Nithveen Kavi P

B.Sc. AI & Machine Learning Student | Founder & Technology Lead, EFLABS Pvt. Ltd.

Chennai, Tamil Nadu, India | kavi.erebe@gmail.com | +91 91501 39833 | [Linkedin](#) | [GitHub](#)

PROFESSIONAL SUMMARY

AI & Machine Learning undergraduate at SRM Institute of Science and Technology with expertise in Artificial Intelligence, Full-Stack Development, Automation Systems, and Digital Transformation. Founder & Technology Lead of EFLABS Pvt. Ltd., delivering AI-powered software solutions, enterprise web applications, and digital automation platforms. Experienced in leading multidisciplinary teams, developing scalable products, and translating cutting-edge technologies into real-world business impact. Passionate about AI research, intelligent systems, robotics, space technology, and startup innovation.

EDUCATION

- **B.Sc Computer Science w/s in Artificial Intelligence and Machine Learning**

SRM Institute of Science and Technology (SRMIST), Ramapuram
Expected Graduation: 2027

- **Class XII (CS-Maths) | 2024**

Vani Vidyalaya Senior Secondary & Junior College, West K.K. Nagar

EXPERIENCE

Founder & Technology Lead

EFLABS Pvt. Ltd.

2024 – Present

- Founded and scaled a technology solutions company specializing in AI, automation, web development, and digital transformation.
- Led development of custom enterprise applications for educational institutions and SMEs.
- Designed and deployed scalable web platforms serving thousands of users.
- Managed end-to-end software lifecycle including architecture, development, deployment, and maintenance.
- Implemented automation workflows that significantly reduced manual operational effort for clients.
- Directed SEO and digital marketing campaigns generating measurable business growth.

TECHNICAL PROJECTS

Railway Wildlife Collision Prevention System (RWCP-S)

Python | AI | Computer Vision

- Developed an intelligent safety system to detect wildlife presence near railway tracks and reduce animal-train collisions.
- Applied machine learning and computer vision techniques for real-time monitoring and risk assessment.
- Designed a scalable framework for automated alerts and preventive action mechanisms.
- Focused on improving railway safety while supporting wildlife conservation initiatives.

Financial Statement Analysis using RAG and Large Language Models

Python | RAG | LLMs | NLP

- Built a Retrieval-Augmented Generation (RAG) system for analyzing financial statements and generating intelligent insights.
- Integrated document retrieval pipelines with Large Language Models for context-aware financial analysis.
- Implemented data preprocessing, embedding generation, and semantic search capabilities.
- Enhanced accuracy of financial query responses through retrieval-based reasoning.

CNN-Based Image Classification System

Python | TensorFlow | Deep Learning

- Developed a Convolutional Neural Network (CNN) model for multi-class image classification.
- Trained on a dataset containing over 60,000 images across 40+ categories.
- Implemented model evaluation, visualization, and interpretability techniques.
- Achieved robust classification performance through optimization and feature extraction.

Medical Question Answering using Multi-Layer Perceptron (MedQA_MLP_BP)

Python | Machine Learning | Healthcare AI

- Designed and trained a neural network model for medical question-answering tasks.
- Applied backpropagation algorithms and supervised learning techniques.
- Evaluated model performance using classification and prediction metrics.
- Explored AI applications in healthcare decision-support systems.

AI-Powered Loan Approval Prediction System

Python | Machine Learning | Predictive Analytics

- Developed machine learning models to predict loan approval eligibility.
- Applied data preprocessing, feature engineering, and model evaluation techniques.
- Optimized prediction accuracy by comparing multiple ML algorithms.

University Management Portal (Ongoing Startup Product)

Next.js | FastAPI | PostgreSQL | AI

- Architecting a comprehensive ERP platform for educational institutions.
- Features include AI timetable generation, attendance management, fee processing, examination planning, and multilingual support.
- Implementing secure role-based access control for students, faculty, parents, and administrators.
- Building a scalable SaaS solution for modern educational ecosystems.

TECHNICAL SKILLS

- **Languages:**

Python, JavaScript, TypeScript, Java, SQL, Bash

- **AI & Machine Learning:**

TensorFlow, PyTorch, Scikit-Learn, Deep Learning, Computer Vision, NLP, LLMs, RAG

- **Web Development:**

Next.js, React.js, Node.js, Express.js, REST APIs, Tailwind CSS

- **Databases:**

PostgreSQL, MongoDB, MySQL, Firebase

- **Tools & Platforms:**

Linux, Git, GitHub, Docker, AWS, Vercel, Postman

- **Core Concepts:**

Data Structures & Algorithms, OOP, System Design, Cloud Computing

ADDITIONAL INFORMATION

Languages: English, Tamil, French (A1)

Soft Skills: Leadership, Problem Solving, Communication, Teamwork, Project Management

LEADERSHIP

Technology Lead & Entrepreneur

- Managed development teams across software, marketing, and design domains.
- Coordinated client projects from requirements gathering to deployment.
- Mentored students and junior developers in AI, web development, and entrepreneurship.
- Built strategic partnerships with educational institutions and businesses.

AWARDS & ACHIEVEMENTS

Young Entrepreneur Award

Sri Venkateswara Montessori Teachers Training Group of Schools

- Recognized for innovation and leadership in technology, web solutions, and digital transformation.

Project Expo Participant / Finalist

SRM Institute of Science and Technology

- Presented AI-driven technology solutions and innovation projects.

Founder – EFLABS Pvt. Ltd.

- Successfully established and operated a technology startup delivering AI and software solutions.

INTRESTS

Artificial Intelligence • Space Technology • Cyber Defence • Scientific Computing • Startup Innovation • Product Development • Open Source • Cooking • Robotics