

Tushar Sakargayan

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Overview

A passionate software developer with **expertise in backend and frontend technologies**, including **Python, Java, JavaScript**. Experienced in developing **automated solutions, mobile applications, and backend systems using Frappe Framework and Machine Learning**. Proven ability to work under pressure, adapt to evolving requirements, and collaborate effectively within teams to deliver innovative tech solutions.

Skills

Backend : Python, Java, Node JS

Frontend : HTML, CSS, Javascript, Flutter

Machine Learning : Machine Learning, Neural Network, NLP

Libraries : Matplotlib, TensorFlow, Pandas, NumPy, Keras, scikit-learn, Frappe

Database : SQL

Tools & Platforms: n8n, Claude, OpenAI Codex

Work Experience

Professional Training

March 2026 – Present

- Learned and built applications using **Generative AI** and **Large Language Models (LLMs)**.
- Learned and implemented **Retrieval-Augmented Generation (RAG)**, **prompt engineering**, and **AI agent workflows**.
- Built AI-powered applications by integrating **OpenAI**, **Google Gemini**, and **Nvidia NIM models**.

Junior Technical Consultant

Indiba Business Solution Limited

January 2025 - February

2026

Key Responsibilities:

- Developed a **Generalized Biometric App using python as backend**.
- Developed client scripts in **Frappe Framework using JavaScript** and server scripts using **Python for backend automation**.
- Developed and trained a **machine learning model** for detecting digits on a **7-segment display**.
- Designed and built a **Salesman and Admin Management Android App** using Flutter.

Developer (Intern)

SmartCity Indore

April 2023 - June 2023

Key Responsibilities:

- Engineered an IoT-based Smart Dustbin during an internship, leveraging sensors, microcontrollers, and **Machine Learning algorithms** to revolutionize waste management. The project was awarded a patent for its innovative design.(**Patent CBR No. - 207631**)
- Designed and built a **Fire Fighting Rover that autonomously detects and extinguishes fires using advanced Machine Learning techniques**.

Developer (Intern)

Hemans AI

August 2022 - December 2022

Key Responsibilities:

- Streamlined the content creation process by **developing an advanced markdown editor**.
- Enhanced user interaction by creating a **speech-recognition application using JavaScript**.

Projects

Sunwai - <https://sunwai-cee55.web.app> | **Firestore Cloud Functions, Node.js, NVIDIA AI APIs, Llama 3.1, Gemma 3n**

- Built an **AI-powered civic issue reporting platform** that analyzes uploaded images using Vision LLMs to automatically classify issues, assess severity, and assign the appropriate municipal department.
- Developed an **intelligent multilingual chatbot using Large Language Models (LLMs)** to guide citizens through issue reporting, generate structured complaints, and support Hindi, English, and Hinglish conversations.
- Implemented serverless backend APIs with **Firestore Cloud Functions, integrated NVIDIA AI models (Gemma 3n & Llama 3.1)**, and designed automated workflows for end-to-end complaint generation and submission.

hAIre – <https://haire.vercel.app> | **React, JavaScript, NVIDIA NIM APIs, LLMs, Nemotron LLM, Mistral LLM, PDF.js, jsPDF**

- Built an **AI-powered career assistant** that analyzes resumes against job descriptions, generates ATS optimization suggestions, rewrites resume content, and calculates job match scores using Large Language Models (LLMs).
- Developed intelligent interview preparation features that generate personalized technical, behavioral, system design, and HR interview questions based on the candidate's resume and target job role.
- Integrated **NVIDIA NIM LLMs, Generative AI workflows, PDF parsing, and automated resume generation** to provide an end-to-end AI-driven job application assistant.

EasyDine – easydine.vyuhanam.in | **React · Node.js · Turso · Socket.io · Razorpay**

- Built a full-stack SaaS restaurant **QR ordering system**, featuring real-time kitchen order updates via Socket.io, multi-floor table management, and Razorpay payment integration.
- Designed a complete restaurant operations suite with dynamic menu management, live order tracking, role-based admin/kitchen/waiter panels, and QR-based customer ordering — deployed and live in production.

VidSense – **Chrome Web Store** | **JavaScript · Chrome Extension API · NLP · ML**

- Developed a **context-aware YouTube recommendation Chrome extension** that analyzes video content semantics to surface more relevant suggestions, moving beyond YouTube's default engagement-driven algorithm.
- Published on the **Chrome Web Store**, leveraging **NLP techniques to extract video context and deliver personalized, intent-aligned recommendations** in real time.

Education

- Hybrid Masters of Technology in Artificial Intelligence and Data Science from Indian Institute of Technology, Patna (2025-27)
- Bachelor of Technology in CSE - Artificial Intelligence and Machine Learning from Acropolis institute of Technology and Research, Indore in 2024
- Completed secondary school from Shree Neema Vidhya Niketan, Indore affiliated with MP Board, Indore in 2020.
- Completed high school from ST Norbert School, Indore affiliated with CBSE Board, Indore in 2018.