KAVANA T N

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Summary

Final-year CSE student (Batch 2026) with strong foundations in software development, debugging, and SDLC. Experienced in building AI-driven and full-stack applications, integrating ML models with backend APIs and frontend interfaces using Python, Java, C, and JavaScript, with strong problem-solving and collaboration skills in Agile environments.

Education

Bapuji Institute of Engineering and Technology **2022 − 2026**
B.E in Computer Science and Engineering, CGPA - 8.67 *Davanagere, Karnataka*

Sir MV PU College **2020 − 2022**
Pre-University (PCMCs), Percentage - 96.8% *Davanagere, Karnataka*

Technical Skills

AI/ML & Generative AI: TensorFlow, PyTorch, Keras, scikit-learn, Foundation Models (LLMs), CNN, Supervised/Unsupervised Learning, Model Training, Data Preprocessing, Generative AI, Automation
Programming Languages: Python, Java, C, JavaScript, SQL
Backend Development: Flask, FastAPI, RESTful APIs, API Integration, Backend Architecture
Frontend Development: React, Next.js, Streamlit, HTML/CSS, Responsive UI Design
Cloud & DevOps: AWS, IBM Cloud, Docker, Kubernetes, Git, Linux
Tools & Platforms: VS Code, Jupyter Notebooks, MongoDB, Postman
Core Competencies: Research & Experimentation, Prototyping, Self-Starter, Builder Mindset, Adaptability, Documentation, Problem-Solving, Collaboration, SDLC (Agile, Scrum)

Internship Experience

AI/ML Developer Intern | *Infosys Springboard (Virtual)* **Oct 2025 − Dec 2025**
- Explored and experimented with AI/ML models to build end-to-end prototypes from rough concepts to functional implementations using TensorFlow and PyTorch for plant disease diagnosis system (PlantDocBot).
- Researched and implemented multimodal data processing pipeline handling 28K+ images across 43 classes, achieving 85%+ accuracy through CNN optimization and iterative experimentation.

Projects

EchoVerse − AI Powered Audiobook Generator | *Python, Streamlit, IBM Watsonx, Generative AI* **Aug 2025**
- Built a generative AI prototype using IBM Watsonx Granite models for intelligent text rewriting with customizable tones and multi-voice TTS for dynamic audio generation.
- Developed a responsive full-stack interface with real-time playback and downloadable outputs, independently turning the concept into a functional proof-of-concept.

HealthPal AI − Health Recommendation System | *Python, Flask, Mistral AI, RESTful API* **Oct 2024**
- Prototyped full-stack healthcare platform with Flask backend APIs and frontend dashboard, integrating Mistral AI for contextual lifestyle recommendations via real-time chatbot.
- Researched and implemented data-driven personalization features (sleep, mood, activity tracking) with scalable API pipelines, demonstrating builder's attitude in turning undefined goals into working solutions.

AI-Powered Video Transcription & Summarization | *Python, Flask, Whisper, LLaMA, NLP* **Nov 2025**
- Designed and implemented an end-to-end AI pipeline for processing long-form audio/video into structured text, combining speech recognition and NLP for downstream analysis.
- Built modular components for transcription (Whisper), abstractive summarization (LLaMA), topic clustering, and sentiment analysis, enabling rapid experimentation and exposed via a production-ready Flask API.

Certifications

- AWS Machine Learning Foundations – AWS Educate
- Gen AI Exchange – Google Cloud SkillsBoost (2025)
- AI Vector Fundamentals – Oracle Learn (2025)
- Introduction to Generative AI – IBM SkillsBuild (2025)
- Google Data Analytics Professional – Coursera (2025)
- Introduction to MongoDB – MongoDB University (2024)
- NPTEL Java – AICTE IIT Kharagpur (2022)
- NPTEL C Programming – AICTE IIT Kanpur (2022)

Achievements

- **MumbaiHacks 2025 Finalist** Built "MindLift" an Agentic AI-based mental-health support system using Perspective AI for safe, adaptive responses.
- **Cognitive-X (2025) Finalist** Led 3-member team to Top 10/245, demonstrating impact-focused building mindset.
- **HackTechFusion 3.0 (2025) Winner** Built cross-platform event discovery app "sceenz" collaboratively, contributing full-stack development and UI/UX design from concept to implementation.
- **Rakuten AI Conference (2024)** Presented Smart Mirror & Voice-to-Code AI prototypes on emerging tech.
- **Amazon Future Engineer Scholarship (2023)** Awarded for technical potential and learning-driven mindset.