Vignesh B S

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SUMMARY

AI & ML Engineer developing **agentic and neural-driven systems** that power intelligent automation. Working at **LessonPlan** as an **AI Systems Developer** and **GyanEdge** as a **Software Developer,** leveraging machine learning, cloud infrastructure, and full-stack development to build adaptive, real-time solutions. Skilled in **AI architecture design, deployment, and optimization**, with **several national and international hackathon wins** showcasing innovation and real-world impact.

WORK EXPERIENCE

AI Systems Developer, LessonPlan   Nov 2025 – Present

Developing production-grade AI systems across ML pipelines, agentic frameworks, and generative architectures for an EdTech platform. Building and deploying adaptive models for personalized learning, integrating generative AI into classroom workflows, and optimizing automation pipelines for low-latency, scalable performance. Collaborating on cloud-native architectures, CI/CD automation, and monitoring for efficient model lifecycle management.

Software Developer, GyanEdge (Part-Time)   Mar 2025 – Present

Owning full-cycle development of educational platforms spanning frontend, backend, deployment, and AI integration. Implementing RESTful APIs, modular UI components, and real-time data systems; integrating ML models for student analytics; managing cloud data operations; and enhancing overall performance and reliability of large-scale interactive applications.

QA Engineer – AI Interview Solutions, OpenIntervue (Intern)   May 2025 – Jul 2025

Executed end-to-end QA for a live LLM-driven interview platform, validating model responses for accuracy, coherence, and contextual relevance. Designed and implemented automated test plans, logged performance metrics, and provided actionable insights to improve evaluation workflows, latency, and model monitoring pipelines.

PROJECTS

Sparsh Mukthi   sparsh-mukthi.xyz

Touchless AI system enabling gesture, voice, and head-tracking controls for accessibility and education using edge AI.

NaviMeet   navimeet.xyz

AI-powered meeting point finder integrating Google Maps APIs and Vertex AI for optimal group navigation.

Paraso   github/Paraso

Agentic AI control system combining gestures, voice, and automation pipelines for intelligent desktop interaction.

MindMate   github/mindmate

Flutter-based AI companion offering conversational memory and context-aware interaction.

Tiz-Gun   tiz-gun.vercel.app

Typing-based shooter game with real-time word recognition, progressive difficulty, and responsive browser gameplay.

EDUCATION

2024 – 2028	**Bachelor of Engineering in Computer and Information Science**, **Bangalore Institute of Technology (VTU)**
	Currently in 3rd semester with a CGPA of 9.1/10

ACHIEVEMENTS

Hack Aventus 3.0 — 1st Place, 100K   Details
Developed *Sparsh Mukthi*, a touchless AI accessibility platform using gesture and voice recognition; recognized for innovation and scalability.

Google Maps Platform Awards — Best of Travel (Top Fan Vote)   Details
Honored for *NaviMeet*, an AI-powered meeting-point recommender built with Google Maps APIs and Vertex AI.

Hack Academia — 2nd Place, 15K   Details
Built an intelligent agent solution addressing education workflows through automation and real-time analytics.

Infinity Code Hackathon (International) — 1st Place, \$25K Credits   Details
Awarded for technical depth and accessibility innovation for the *Sparsh Mukthi* project.

HackVortex Codestorm 5.0 — 2nd Place   Details
Recognized for engineering excellence in an AI-driven accessibility solution.

AsterHacks — Winner   Details
Won for innovation in real-time assistive AI applications.

Omnitrix — 5K Prize   Details
Built a multimodal interaction system that streamlines user experience with AI-driven automation.

Pragyan Think2Impact — 3rd Place, 8K   Details
Presented a production-ready prototype emphasizing accessibility and practical deployment.

SKILLS

Programming	Python, JavaScript, TypeScript, C, C++, HTML, CSS, SQL
AI & Machine Learning	TensorFlow, scikit-learn, OpenCV, MediaPipe, Vertex AI, Generative AI, Agentic Systems, LLM Integration
Frameworks & Tools	React, Flask, Node.js, Express, TailwindCSS, REST APIs, Git, Docker
Cloud & Deployment	Google Cloud Platform, Firebase, Render, GitHub Pages, CI/CD Pipelines
Other Competencies	Problem Solving, System Design, Team Collaboration, Hackathon Strategy, Technical Documentation