

SIDDHARTH P

CONTACT

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SKILLS

- Problem Solving
- Critical Thinking
- Analytical Reasoning
- Logical Decision Making
- Team Collaboration
- Project Management Adaptability & Learning Ability Project Collaboration
- Research & Implementation

LANGUAGES

- English
- Hindi
- Kannada
- Telugu

PROGRAMMING SKILLS

- Python & Java
- C programming language
- HTML, CSS, Java Script, PHP
- Scikit-learn & RapidMiner
- Tensorflow and PyTorch
- MySQL
- Arduino IDE, Tinkercad, Blynk
- API Integration
- Firebase integration
- Git version control
- No-code platforms
- Blockchain

PROFILE

Final-year B.E. AI/ML student at BNM Institute of Technology (CGPA 8.61) building local-first AI systems, applied computer-vision tools and GenAI learning workflows. Portfolio spans driver safety/fleet monitoring, offline speech AI, RAG/document intelligence and medical imaging ML. Seeking AI/ML, GenAI/RAG, computer vision or applied AI internship roles.

WORK EXPERIENCE

AI/ML Intern - Equinox Pvt Ltd JUNE 2025 - JULY 2025

- Researched on stress faced by pilots during long flight durations and the consequences.
- Worked in the human lab sector on stress detection in pilots using facial analysis

PROJECTS

1) SmartHelm - AI Driver Safety & Fleet Monitoring Platform

Developed a cab/fleet safety prototype that connects live-video stress/drowsiness inference with a fleet dashboard for driver-risk visibility and alerts.

2) Stress Detection System - Multimodal Facial & Physiological Analysis

- Real-time, webcam-based system combining MediaPipe 68-point facial landmarks with rPPG/POS heart-rate estimation and a Random Forest classifier for accurate, hardware-free physiological stress inference.
- Co-authored IEEE-format review paper at BNMIT; achieved multi-signal fusion across facial expression, action-unit detection, and estimated HRV features.

3) NirmiqResearchOS - On-Premise AI Research Infrastructure

- Local-first AI OS on RTX 4050 (6 GB VRAM) using Ollama for private LLM hosting, n8n for visual workflow automation, Docker for service orchestration, and Tailscale for zero-trust remote access.
- Zero-cost AI pipelines for RAG chatbots, multi-agent research workflows, and content generation; serves as the inference backend for the AGION Wellness Platform case study.

4) NirmiqEcho - Offline Voice Typing Assistant

- Created a privacy-first Windows voice tool using faster-whisper, WebRTC VAD, GPU/CPU auto-switching, F9 global hotkey and active-window text insertion with no cloud/API dependency.

5) Project Aarna (ongoing) | project-aarna-web.vercel.app

- Developing a blue carbon MRV system using blockchain smart contracts and IoT sensors for verified environmental impact tracking and carbon credit issuance.

6) Trust Layer - Privacy Risk Analyser | Chrome Web Store

- AI-powered Chrome extension and web app with an Express API backend; uses LLM calls to analyse website privacy policies in real time, scoring user privacy risk on a 1-10 scale.

7) Automated Brain Tumour Detection - Medical Imaging ML

- Collaborative MRI classifier using hybrid CNN + Vision Transformer architecture for glioma, meningioma, no-tumour and pituitary classes with GradCAM explainability; reported 98.95% 5-fold CV accuracy/F1.

EDUCATION

BNM Institute of Technology 2023 - 2027 (present)

Bachelor of Engineering in Artificial Intelligence & Machine Learning

Sri ChaithanyaPU College (Pre-University) 2023 2021 - 2023
PCMC

Sri Vani Education Centre | 2021
ICSE