P S SUHAS MARUTHI

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AI & ML Engineering student with a strong foundation in deep learning, computer vision, and data-driven problem-solving. Passionate about developing and deploying innovative solutions and building intelligent systems.

TECHNICAL SKILLS

Languages: C, C++, Python, SQL, HTML/CSS.

Frameworks/Technologies: Computer Networks, TensorFlow, Pandas, Matplotlib, OpenCV, RAG, AIML, DL, NLP, LLMs, Generative AI, Computer Vision, Robotics, Embedded Systems.

Developer Tools: Power BI, Tableau, VS Code, Git, GitHub.

Soft Skills: Communication, Teamwork, Problem-solving, Time Management, Adaptability**,** Leadership.

PROJECTS EXPERIENCE

AI-Powered Mental Wellness App *July 2025 – Present*

- Developed an AI-driven mobile application for mental wellness and personalized emotional support.
- Integrated **Generative AI** models for empathetic conversations and real-time mood tracking.
- Implemented **NLP-based sentiment analysis** and **therapist recommendation with session booking** features.
- Optimized model performance for **real-time inference and smooth user experience** within a Flutter-based interface.

Real-Time Hand Gesture Volume Control *January 2025*

- Built a real-time hand gesture recognition system to control car audio volume for autonomous driving environments.
- Used **MediaPipe Hands** and **OpenCV** to detect and track finger landmarks for dynamic gesture-based volume mapping.
- Integrated **Pycaw API** for smooth, continuous volume adjustment with visual feedback in real time.
- Optimized for **low latency** and deployed as an interactive desktop app simulating in-car gesture control.

Anthracnose Rot Detection using YOLOv8 model *November 2024*

- Developed an AI-based detection system using **YOLOv8** to identify Anthracnose Rot in fruits and vegetables with high precision.
- Collected, annotated, and augmented agricultural image datasets for effective **Deep Learning model training**.
- Implemented real-time detection pipeline with **Python, PyTorch, and OpenCV**, supporting field-level disease monitoring.
- Optimized the model for **edge deployment** (Raspberry Pi) to enable scalable, farmer-friendly diagnostics.

EDUCATION

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY 2022-*2026*

Bachelor of Engineering, Karnataka CGPA: 8.00

Class 12 *2020-2022*

Alvas PU College, Mudbidri Percentage: 91.3%

Class 10 *2020*

Sri Ramamkunjeshwara English Medium High School, Ramakunja Percentage: 95.2%

COURSES & CERTIFICATIONS

Course Completion certificate on **AI/ML for Geodata Analysis** by **ISRO**.
Course Completion certificate on **Power B**

ADDITIONAL INFORMATION

Languages: English, Kannada, Telugu, Hindi
Hobbies: Artworks, Drawing
Initiative: Co-founded the Agriculture Club at Dr. AIT to promote AI-driven solutions in farming.