SRIPAD PATIL

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ABOUT ME

A passionate and self-driven B.Tech student specializing in Artificial Intelligence and Machine Learning (AIML), with strong technical skills and a passion for developing intelligent and connected systems. Seeking an opportunity to apply my knowledge and skills in a dynamic and innovative environment.

EDUCATION

BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU (VTU AFFILIATED)   **2022**
B.Tech in Artificial Intelligence and Machine Learning
Expected Graduation: May 2026
CGPA: 8.2 / 10

SKILL

- Languages: Python, C, Java
- Web Development: HTML, CSS, React.js, Node.js
- Tools & Libraries: NumPy, Pandas, Matplotlib, Seaborn
- Database: MySQL, MongoDB
- Version Control: Git, GitHub

PROJECTS

1. AI Voice Assistant - "Nova"   **2025**

A smart AI assistant developed in Python with voice input/output capabilities.

- Speech recognition using Whisper
- Natural language understanding via Hugging Face transformers
- Text-to-speech with Coqui TTS
- GUI with PyQt6 and IoT integration using MQTT

2. Home Automation: Smart Bulb   **2022**

Created a WiFi-based IoT system using ESP32 and MQTT to control a smart bulb via a mobile app.

- Real-time control from anywhere
- Integrated with Google Assistant
- Mobile app built with Flutter

3. Gesture-Controlled Vehicle and Mouse (mini project)   **2024**

Built a hand gesture-controlled robotic car using Arduino and an accelerometer (MPU6050).
Developed a hand motion-controlled virtual mouse using OpenCV and Python.

- Wireless control using NRF24L01 modules
- Mapped gesture angles to directional commands
- Camera-based hand tracking
- Real-time control of cursor and clicks with finger gestures