

PAVITHRA G K

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CAREER OBJECTIVE

To enhance my professional skills, capabilities and knowledge in an organization which recognizes the value of hard work and trusts me with responsibilities and challenges.

EDUCATION

ATME College of Engineering, Mysore
Bachelor of Engineering, CSE data science

2022 - 2026
CGPA – 7.02

PROJECTS

Multilingual AI Speech Recognition and Translation For Instant Communication

Project Title: Multilingual AI Speech Translation System

Tools Used: Python, Flask, Google Translate API, gTTS, SpeechRecognition, OpenCV

Description:

Developed a multilingual web application that accepts English input through text, live audio, audio file upload, or video upload and provides translated text and speech output in five South Indian languages — Tamil, Telugu, Kannada, Malayalam, and Tulu. Integrated speech-to-text (STT), translation, and text-to-speech (TTS) modules into a single seamless system using Flask as the backend framework.

Forest Biodiversity Monitoring Using IoT Sensors

Project Title: Forest Biodiversity Monitoring Using IoT Sensors

Type: Mini Project

Tools Used: Arduino, IoT Sensors (Soil Moisture, Temperature, Gas), ThingSpeak, Python

Description:

Implemented an IoT-based environmental monitoring system to track key forest parameters such as soil moisture, temperature, and gas concentration. Enabled real-time data collection and analysis to identify ecological changes and detect potential threats like deforestation and climate change.

SKILLS

- **Languages:** Python, C, Java, JavaScript, HTML, CSS.
- **Tools:** VS Code, Git, GitHub, Jupyter notebook, Google colab
- **Libraries & Frameworks:** NumPy, Pandas, TensorFlow, Keras, ExpressJS, NodeJS, React, Scikit-learn, Stream lit, OpenCV, Tableau, Power BI
- **Databases:** MongoDB, MySQL.
- **Interpersonal:** Team management, Communication, Problem Solving.

EXTRACURRICULAR

- **Workshop** - Azure Developer-Microsoft,Bengaluru
- **Member** - IET On Campus,ATMECE