

# Arumugam N

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**Portfolio:** [arumugam.connect](https://arumugam.connect)

## EDUCATION

### Periyar Government Hr. Sec. School

Grade 10th - 87.5%

Cheranmahadevi, Tirunelveli

June 2017 – May 2019

### Tilak Vidhyalaya Hr. Sec. School

Grade 12th - 91.5%

Kallidaikurichi, Tirunelveli

June 2019 – May 2021

### Francis Xavier Engineering College

Bachelors Degree in Computer Science & Business Systems | **CGPA: 8.6**

Tirunelveli, Tamil Nadu

September 2021 – April 2025

## SKILLS

**Programming Languages:** Python, C/C++, SQL, HTML, CSS, JS

**Frameworks:** OpenCV, TensorFlow, Flask, Django

**Developer Tools:** Git, VS Code, PyCharm, Eclipse

**Libraries:** pandas, NumPy, Matplotlib, Sci-kit Learn

## EXPERIENCE

### Python Full Stack Developer

January 2025 - May 2025

*Qspiders Campus Connect*

*Chennai, Tamil Nadu*

- Worked on real-time web-application projects using Python, Django, HTML, CSS and JavaScript
- Developed RESTful APIs and Integrating frontend-backend components for dynamic functionality
- Gained hands-on experience with MySQL, version control (Git) and deployment practices

### Machine Learning Intern

January 2024 – March 2024

*Quantanics Private Limited*

*Madurai, Tamil Nadu*

- Collaborated with 3 interns and senior developer to brainstorm and implement ideas and feedback into Project's development
- Led the development of a Machine Learning Web-app using Streamlit, deploying YOLOv8 for Heritage Monument detection from Satellite Images
- Working on the creation of an Autonomous Robot, leveraging NVIDIA Jetson Nano, to identify Medicinal Plants in inaccessible areas

## PROJECTS

### MedBot | Python, Tensorflow/PyTorch, Jetson SDK, OpenCV

Jan 2023 - Mar 2023

- Developed an autonomous robot using NVIDIA Jetson Nano to identify medicinal plants in remote areas
- Implemented image classification models to detect and differentiate various plant species based on leaf patterns
- Integrated real-time camera feed processing and plant detection using Python, OpenCV, and deep learning techniques

### Voice Cloning AI | Python, TortoiseTTS, JupyterLab

June 2023 – July 2023

- Developed a voice cloning interface in JupyterLab with the usage of Tortoise Text-to-Speech library in Python
- Implemented Machine learning techniques to transform clone voices

### Org - Assist | Python, MongoDB, NLP, Flask

October 2023 – November 2023

- Developed a Web-app of a Chatbot that can be used to ask about an organisation's information and report complaint any issues about the organisation through the bot
- Deployed NLP techniques to process the user's input and reply with processed set of monologues

## CERTIFICATIONS

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### **Natural Language Processing Fundamentals** | *NPTEL* | CERTIFICATE

Oct 2023

- Successfully completed NPTEL course in NLP, covering core concepts and real-world applications
- Gained hands-on experience in tokenization, sentiment analysis, and model building using Python libraries

### **AI Bot Development** | *NeubAItics Pvt. Ltd.* | CERTIFICATE

Nov 2022

- Attended a hands-on workshop on AI Bot Development, learning fundamentals of chatbot architecture and design
- Built basic conversational bots using Python, NLP techniques, and integrated them with web interfaces

## ACHIEVEMENTS

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- First Prize – *Srishti International Project Exhibition*, March 2023
- First Prize – *Internal Hackathon*, Francis Xavier Engineering College (Software Domain), October 2023
- Published Patent – “MedBot: An AI-integrated Rover for Medicinal Plant Detection,” January 2024