

Kamalnath S *Software Engineer | AI & Embedded Systems*

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 Kamalnath.S.L  Kamalnath.S.L  dev.to/Kamalnath  Hugging_Face

ABOUT ME

Software Engineer with 2 years of experience in ASP.NET Core, C#, SQL, and Python. Interested in AI, Generative AI, embedded systems, and backend development. Built AI chatbot and TamilLang projects using Hugging Face and OpenAI APIs.

EDUCATION

V.S.B Engineering College,
B.E(B.tech / IT), Percentage: 78%
08/2017 – 04/2021 | Karur, Tamil Nadu

Navarasam Matriculation Higher Secondary School,
CS, HSC, State Board, Tamil Nadu, Percentage: 65%
03/2016 – 03/2017 | Erode, TamilNadu

Navarasam Matriculation Higher Secondary School,
SSLC, State Board, Tamil Nadu, Percentage: 83%
03/2014 – 03/2015 | Erode, TamilNadu

SKILLS

Programming language

Python, C#, SQL, C

Web Technology

ASP.NET Core, HTML, CSS, JavaScript

Tools & Framework & DevOps

Git, GitHub, VS Code

AI & Machine Learning

Generative AI, Prompt Engineering, NLP, Hugging Face, OpenAI API, Gradio.

Soft Skills

Problem Solving, Communication Skills, Team Collaboration, Quick Learner

Embedded & Hardware

Embedded Systems, PCB Basics, Hardware Troubleshooting, Electronics Fundamentals

PUBLICATIONS

TamilAI Chatbot

- Developed an AI chatbot.
- Built using Hugging Face and Gradio.
- Supports chat and translation features.
- Live Demo: TamilAI [↗](#)

PROFESSIONAL EXPERIENCE

Om Techno Craft Corporation, *Embedded Engineer*

08/2025 – Present | Erode, Tamil Nadu, India

- Working on PCB-based systems and embedded workflows
- Supporting testing and hardware troubleshooting activities
- Learning embedded systems and hardware-software integration

Independent Learning & Skill Development

06/2023 – 08/2025 | Erode,, Tamil Nadu

Focused on technical upskilling in Python, AI/ML, Generative AI, embedded systems, and project development through continuous self-learning and hands-on practice.

Capgemini - Experience Letter - Relieving Letter [↗](#), *Software Engineer*

09/2021 – 06/2023 | Chennai, Tamil Nadu, India

- Developed backend applications using ASP.NET Core, C#, and SQL Server
- Worked on debugging and application support
- Supported database operations and issue resolution
- Collaborated with teams in Agile environment
- Improved application performance and maintenance work flows

PROJECTS

Tamil Programming Languag - Project Link **PyPi - Tamil_Lang** [↗](#)

07/2024 – Present

- Developed a Tamil-based programming language.
- Published as a Python package on PyPI.
- Built custom interpreter with Tamil-Python syntax.
- Focused on language design and NLP concepts.
- [Project Repo: [GitHub/Tamil-Lang](#) [↗](#)]

CERTIFICATES

Google Cloud [↗](#) – Associate Cloud Engineer

Microsoft Azure [↗](#) – Azure Fundamentals

Capgemini Award [↗](#) – Associate Innovator