RESUME

PERSONAL PROFILE

Surname, First Name: Jathanna, Sanya Shresta

Address: Udupi, Karnataka

Contact Number: 9535293027

Date of Birth: 25-04-2004

Place of Birth: Udupi

Email: shrestasanya@gmail.com

EDUCATION:

2022- 2026	Bachelor of Technology in Information Science and Engineering
	Engineering Institute of Nitte University, Karkala, India
	CGPA: 9.08

PROJECTS:

Facial Expression Generation Using GAN and Autoencoder

Developed a PyTorch-based autoencoder to generate facial expressions using the labelled CelebA dataset. The model was trained to reconstruct and synthesize facial attributes such as "Smiling" by learning latent representations through an encoder-decoder architecture. The training process involved tracking reconstruction loss (using MSE) to evaluate how accurately the decoder recreated the input, and attribute accuracy using a simple classifier on the latent space to ensure that key features were preserved. Implementation and experimentation were conducted in **Google Colab** using **Python**, **PyTorch**, **NumPy**, **Pandas**, and **Matplotlib** for data processing and visualization. The notebook includes visualizations of training dynamics, including loss and accuracy trends, and displays generated outputs to assess model performance.

Childhood in a Nutshell

It is a fun Disney character storybook web app that lets users explore and interact with their favourite characters. It is built using a **full-stack setup with React, TypeScript, Tailwind CSS, and Flask**, and includes a **machine learning model** that suggests similar characters based on what users choose. Key features include search, random character discovery, a favourites panel, CSV export, and theme switching. The app also includes **3D animations made with Spline** to make the experience livelier and more magical. Everything is packed inside **Docker containers**, making it easy to run and deploy. The project is designed to be playful and easy to use while bringing back memories of childhood.

INTERNSHIPS:

Design WebTech, Bengaluru   June 2025 – Aug 2025
Role: Frontend Developer (Remote)

• Developing responsive user interfaces using **HTML**, **CSS**, **JavaScript (ES6)**, **TypeScript**, and modern frameworks like **React.js (with Vite & Tailwind CSS)** and **Vue.js**
• Assisting in frontend testing and debugging to ensure cross-browser compatibility and performance

NexusVoidAI, New Delhi   Apr 2025 – July 2025
Role: Prompt Engineer Intern & Full Stack Developer (Remote)
• Contributed to building AI agents for **Twitter Spaces** by integrating **LLMs** (OpenAI, Google Gemini, AssemblyAI) and developing APIs using **web scraping** of space data
• Built and deployed **full-stack features with Next.js**, including **payment integration** and an **authenticated backend** using **Supabase**

MSIS Research Internship Project, Manipal   Ongoing
Role: Research Intern
• Speech Enhancement using U-Net architecture: Developed a U-Net-based deep learning model to enhance speech by removing background noise using spectrogram learning. Built a lightweight audio processing pipeline using **NumPy**, **SciPy**, and **Soundfile**, avoiding heavier libraries like librosa. Trained and evaluated the model on real-world datasets like **LibriSpeech** and **ESC-50**, with full support for STFT/ISTFT transformations, custom training loops, and audio inference

TECHNICAL SKILLS:

- Programming Languages: Java, Python, C
- Web Technologies: HTML5, CSS3, JavaScript
- Application Development: Java (Desktop/Android Apps)
- Frameworks & Libraries: React, Flask, Flutter, Three.js, Tailwind CSS
- Tools & Platforms: Vite, Docker, Git, Node.js
- Databases: MySQL, MongoDB, Supabase

KEY STRENGTHS:

- Leadership and teamwork
- Effective communication
- Technical documentation
- Adaptability
- Time management
- Attention to detail

LANGUAGE PROFICIENCY:

Japanese Language Proficiency:
- **Speaking**: Basic conversational – can introduce myself, talk about daily topics, and family
- **Writing**: Basic – familiar with Hiragana, Katakana, and some Kanji
- **Reading**: Basic – able to read simple sentences and signs

Other languages:
- English
- Hindi
- Kannada
- Tulu

EXTRACURRICULAR ACTIVITIES:

- Magazine Coordinator, VISTA (ISE Branch Association)
- Treasurer, NSS IT Wing
- Core Member, Documentation Team – Aura Club
- Finance Committee Member, Incridea'25