

ISHAAN SAWANT

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OBJECTIVE

Aspiring Software Engineer with 5 years of hands-on experience in AI and machine learning projects, seeking a full-time role to apply my skills in developing innovative solutions and driving technological advancement.

EDUCATION

Bachelor of Computer Science:

Vellore Institute of Technology, Chennai Campus (Medium of Instruction: English) 2023 - 2027

Relevant Coursework: Machine Learning, Artificial Intelligence, Data Structures and Algorithms, Deep Learning, Computer Vision

SKILLS

Artificial Intelligence	Machine Learning, Deep Learning, Neural Networks, Computer Vision Image Processing, Retrieval-Augmented Generation (RAG), Sentiment Analysis
Programming Languages	Python, Julia, C++, Java, Kotlin, CUDA (C++)
Database Systems	MySQL, MongoDB, OpenSearch, Firebase

EXPERIENCE

Research Intern Jun 2024 – Aug 2024
Centre of Cyber Physical Systems, VIT Chennai *Remote*

- Designed and implemented a CNN+BiLSTM+Attention Mechanism model for skin lesion classification, achieving 93.8% accuracy on the ISIC 2018 dataset using PyTorch.
- Authored a comprehensive research paper based on the project; submitted to *Scientific Reports (Springer)* (under review).

Apprentice Aug 2020 – Nov 2020, Jun 2021 – Jul 2021
Intel Corporation *Remote*

- Developed a model using the FER dataset to analyze users' facial expressions and voice inputs to determine their mood, enabling personalized Spotify playlist recommendations by incorporating Spotify listening history.
- Built [Emotilligent](#), an emotion recognition model to detect distress in elderly hospital patients by analyzing facial expressions, aiding in patient care and monitoring.

PROJECTS

SkyBeat. Built two models with an ensemble approach to understand facial expressions and textual sentiments for analyzing users' moods and generating personalized Spotify playlists, incorporating their listening history.

Legal Lookup. Developed an AI-based research tool for commercial court lawyers to summarize, semantically search, and analyze legal documents using fine-tuned transformers, RAG pipelines, and OpenSearch Database.

Synapse Engine. Currently developing a Julia-based machine learning framework to streamline the creation of models in meta-learning and reinforcement learning domains.

EXTRA-CURRICULAR ACTIVITIES

IEEE Computer Society, VITC. Contributed to the development of the official website for Hackhub 2025, the flagship hackathon. Developed interactive scroll, button, and background animations using Next.js (TypeScript) to enhance user experience.

Artificial Intelligence Club, VITC. Played a key role in building a Retrieval-Augmented Generation (RAG) based Discord bot to enhance the club's Discord server functionalities as part of a team effort.

Competitive Participation. Regularly participate in hackathons, including being a finalist in Smart India Hackathon (SIH) 2023. Collaborated on research papers focused on innovative AI and ML concepts.