

SUMMARY:

Aspiring Machine Learning and Full-Stack Developer with a strong foundation in NLP, Speech Processing, and Computer Vision. Experienced in fine-tuning large language models using Hugging Face Transformers and building practical ML pipelines for real-world applications like ASR, TTS, wake word detection, and image analysis. Skilled in Python, PyTorch, Vue.js, and cloud technologies (AWS, Azure). Passionate about solving complex problems at the intersection of AI and software engineering.

EDUCATION			
Program	Institution	%/CPA	Year of Completion
Bachelors of Science in Programming and Data Science	Indian Institute of Technology, Madras	8.8/10	2025
Diploma in General Studies (Computer Information Systems)	University of the Fraser Valley	9/10	2019
Class XII	Spring Dale School	7/10	2015
Relevant Skills: C, Python, NodeJS, Java, JavaScript, HTML, CSS, SQL, Sklearn, Numpy, Pandas, Vue.js, React, Hugging Face Transformers, PyTorch, OpenCV, Fine-tuning LLMs, Tokenization, ASR (Speech to Text), TTS (Text to Speech), Wake Word Detection, Speaker Diarization, Language Identification, Image Classification, Object Detection, Depth Estimation, Super-Resolution.			
Relevant Courses: Software Development, System Commands (GNU/Linux), Computer Networking, Database Management Systems, Machine Learning for CV, Deep Neural Network with PyTorch, AI: Search Methods for Problem Solving, Azure AI Fundamentals, AWS Certified Developer – Associate (preparing), Meta Front-end Development Program, HTML/CSS in Depth, React Basics, Role-Based Access Control and IAM Implementation, UI/UX Principles			
SCHOLASTIC ACHIEVEMENTS			
<ul style="list-style-type: none">• Certification of Appreciation - 2nd place in Kaggle Machine Learning Competition• Dean’s List in consecutive terms.			
PROFESSIONAL EXPERIENCE			
Intern	<ul style="list-style-type: none">• Data Science Industrial Training Program - 3 months -(DevTown)• Java SpringBoot project internship - 1 month -(DevTown)• Teaching Assistant – System Commands (GNU/Linux) Indian Institute of Technology Madras Jan 2025 – April 2025 - Assisted in conducting lab sessions and resolving student queries related to Linux shell scripting, package management, text processing tools (awk, sed, grep), version control (Git), and networking commands.		
PROJECTS			
Project 1	<ul style="list-style-type: none">• Advanced NLP Projects• Explored transformer-based approaches to tokenization, LLM fine-tuning, instruction tuning, ASR, TTS, speaker diarization, and wake word detection using Hugging Face, PyTorch, and audio libraries such as librosa etc.		
Project 2	<ul style="list-style-type: none">• Advanced Computer Vision Projects• Built and evaluated image classification, object detection, depth estimation, and super-resolution models using transfer learning and OpenCV/PyTorch.		
OTHER ACTIVITIES			
CERTIFICATION	<ul style="list-style-type: none">• Meta Front-End Developer• AWS Certified ML Associate– Associate preparation.• Introduction to Neural Networks and PyTorch• Azure AI Fundamentals		
Social	<ul style="list-style-type: none">• Social Work and Leadership Secretary, Social Work Wing (College): - Led a student group in organizing outreach programs distributing food and essentials to underprivileged communities. - Demonstrated leadership, empathy, and coordination while managing logistics and volunteer teams.		