SUYASH AGARWAL

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# EDUCATION

**B.Tech , C.S.E with Business Systems** Graduating April 2024 Vellore Institute of Technology, Vellore, TN 8.47 CGPA

# EXPERIENCE

**Debales PVT LTD, India: AI Intern** April 2024 – September 2024

* Created an MVP product for generating video courses from textual prompts.
* Delivered AI solutions for different fields construction, e-commerce, and healthcare
* Created an automatic customizable CRM , KPI and chatbot app that increasesd Sales by 10% and customer retention by 20% for shopify stores

**National University of Singapore, Singapore: Academic Intern** December 2022 – January 2023

* Created a custom dataset using a web crawler to collect information from various websites.
* Worked on various concepts such as activation functions, optimization algorithms, forward and back-propagation, and applications of various neural networks including CNN, RNN.
* Acquired and analyzed data from primary or secondary data sources.

# ACADEMIC PROJECTS

[**Realtime Tutor or Assistant with GPT-4o**](https://github.com/Suyash018/Realtime-Tutor-or-Assistant-with-GPT-4o)May 2024 - June 2024

* Developed a Python-based voice-controlled assistant using OpenAI’s GPT-4o model.
* Implemented audio transcription with OpenAI’s Whisper API and screenshot capture with PyAutoGUI.
* Achieved 400+ views and 40+ clones on GitHub. sold an enhanced version to an investment banker in America.
* Utilized technologies: Python, PyAudio, WebRTC VAD, NumPy, PyDub, OpenAI API, PyAutoGUI.

# [Finetuned Llama 3 8B Instruct to Translate English to Hinglish](https://huggingface.co/suyash2739/English_to_Hinglish_fintuned_lamma_3_8b_instruct) May 2024

* Fine-tuned a language translation model using Llama 3 8B Instruct for English to Hinglish translation.
* Trained on a dataset of English news to Hinglish, achieving high accuracy and context-aware translations.
* Achieved 100+ downloads within 4 days; utilized 4-bit quantization for reduced memory usage.

# Proactive Analysis Model for Customer Service Agents February 2024

* Developed an LLM-powered system to improve customer satisfaction and automate tasks in customer service.
* Employed RAG-based approach, FAISS vector store, ASR,TTS, and Speech Diarization models.
* Generated call summaries, scored sentiment, agent performance, suggested improvements, and created action- able follow-up steps.

# PUBLICATIONS

[**Triclustering of Gene Expression Microarray Data using a Hybrid Bio-Inspired Approach**](https://www.inderscience.com/info/inarticle.php?artid=133849)June 2023

* Accepted in Int. J. Computational Biology and Drug Design

# DOI: 10.1504/IJCBDD.2023.10055230

* Conducted research on triclustering microarray genes and proposed a novel meta-heuristic technique using a hybrid cuckoo (cuckoo search with harmony search) search algorithm under Professor R. Balamurugan.
* The proposed method yielded promising results in identifying genes’ behavior under specific conditions.

# TECHNICAL AND FINANCE COURSES

**Computer Science:** Data Structures Algorithm, Artificial Intelligence, Machine Learning, Theory of Computation, Cloud Computing, Database Management, Deep Learning, Computer Networks

**Mathematical:** Probability and Statistics, Discrete Mathematics, Linear Algebra, Data Science, Statistical Modeling

**Financial:** Marketing Research and Management, Financial and Cost Accounting, Financial Management

# SKILLS

* C, C++, Python, Research, Machine Learning, TensorFlow, Keras, Financial Management,Data Analytics, OpenCV, Accounting, Java, Microsoft Office, Gen AI, OpenAI, LangChain, Hugging Face Pipeline, Flask, FastAPI