

# Aryan Sharma

Fullerton, CA (Open to Relocation) | 714-213-4517

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## Skills

Technologies	Python, SQL, C++, NLP, Transformers (BERT, GPT, T5), Generative AI, LLMs, Prompt Engineering, Vector Databases, Chatbot Development, Web Scraping
Frameworks	TensorFlow, Scikit-Learn, NLTK, HuggingFace, Keras, LangChain, LangSmith, LangGraph, CrewAI, Ragas
Tools	Flask, Docker, Kubernetes, AWS, Azure App Services, MongoDB, Faiss, Selenium, ML Studio
Techniques	Exploratory Data Analysis (EDA), Data Mining, Neural Networks, Fine Tuning

## Experience

ECS Dept., California State University, Fullerton	Jan 2024 – Present
Teaching Assistant – Algorithm Engineering (Part-Time)	

- Guided a cohort through dynamic programming, greedy methods, and NP-completeness via live demos, labs, and review sessions, so students could apply theory to real problems.
- Ran office hours with targeted code reviews and feedback, improving assignment quality and exam readiness across the class.

Pollack Library, California State University, Fullerton	Aug 2024 – Present
LLM Research Engineer (Part-Time)	

- Optimized and evaluated LLM pipelines used by students and faculty, focusing on faster responses and more relevant results for academic queries.
- Integrated AI tools (retrieval + summarization) into existing library systems to reduce manual searching and surface credible sources quickly.

Sabudh Foundation, Mohali, India	Jul 2021 – Jun 2023
Data Science Intern	

- Led a 7-member team delivering 5 projects; improved chatbot accuracy by **20%** and reduced misinterpretation by **15%** through better data curation and evaluation.
- Built clean documentation, flows, and handover guides that increased team efficiency by **30%**; completed **100+** hours of EDA and earned Dataiku/RASA certifications, cutting turnaround time by **35%**.

## Projects

YOLOv8 Object Detector	Computer Vision
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- Developed and deployed object detector with transfer learning, achieving **92% accuracy** on custom dataset; optimized inference with TensorFlow and Ultralytics.

Mini Transformer from Scratch	NLP Core
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- Implemented encoder-decoder Transformer with self-attention and positional encoding to strengthen understanding of LLM internals.

Fine-tuned LLaMA2 with LoRA/QLoRA	LLM Customization
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- Fine-tuned LLaMA2 on domain dataset, reducing hallucinations by **18%**; deployed with HuggingFace PEFT for efficient scaling.

RAG-based Document Assistant	Enterprise GenAI
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- Built Retrieval-Augmented Generation (RAG) system with LangChain + Pinecone, enabling semantic search and context-aware Q&A across large document sets.

Multimodal AI Subtitle Generator	Speech + Language
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- Created subtitle generator using Whisper + LLMs for transcription, translation, and alignment; delivered **multi-language support** for video accessibility.

## Education

California State University, Fullerton, CA	Expected Graduation: Dec 2025
Master of Science, Computer Science	GPA: 3.8 / 4.0

I.K Gujral Punjab Technical University, Punjab, India	Aug 2019 – Jun 2023
Bachelor of Technology, Computer Science & Engineering	GPA: 3.6 / 4.0