

SIDDHANTH DUGGAL

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EDUCATION

University of British Columbia

Bachelor of Science in Statistics and Biochem (Combined Major in Science)

Sep. 2022 – May 2027

Vancouver, BC

- Coursework: Systematic Software Design, Machine Learning, Data Structures & Algorithms, Statistical Modelling.

WORK EXPERIENCE

Zamp

May 2025 – Aug 2025

Artificial Intelligence and Go-To-Market Intern

- Working at a Sequoia-backed agentic AI startup building autonomous workflows for finance operations at enterprises like Uber and DoorDash.
- Working on an AP automation agent that extracted invoice data and executed 2-way PO matching using document and decision agents - cutting AP processing time by 60% for enterprise users.
- Built automation pipelines (via n8n + Slack + HubSpot) to feed LLM-powered daily sales summaries to GTM teams, reducing manual review time by 80%.

iKites.AI

Jul 2024 – Dec 2024

Applied Machine Learning Research Intern

- Worked with Prof. Amit Sethi (IIT Bombay & University of Illinois at Chicago) on reimplementing his paper on classifying H&E stained breast tissue images into four categories using deep learning.
- Fine-tuned the Inception-v3 CNN to achieve 93% accuracy for non-cancerous vs. malignant tissues, surpassing the previous benchmark of 83% (Araújo et al.)
- Responsible for annotating and identifying Drusen segmentations on OCT retinal images to generate labels for a dataset.

Ernst & Young (EY)

May 2023 – Aug 2023

Transaction Diligence Intern

- Performed financial due diligence on a U.S.-based chemical manufacturer, analyzing key financial metrics and industry trends to support M&A decisions.
- Researched market positioning and financial performance of competitors in surfactants and ethylene derivatives, identifying valuation benchmarks and industry risks.

PROJECTS

Vibe-Rater Sentiment Analysis | [GitHub](#)

Python, Pytorch, Transformers, VADER, Scikit-Learn, Pandas

- Developed a sentiment analysis pipeline for Instagram comments enabling real-time sentiment classification for social media analytics.
- Implemented VADER sentiment analysis to compute individual comment scores ("vibe ratings") from 1 -10.
- Fine-tuned a pre-trained BERT model using a dataset of ~200,000 labeled comments from Reddit and Twitter to achieve a 87% classification accuracy rate in generating an aggregate "vibe" for each comment.

RAG-powered AI Resume Assistant | [GitHub](#)

TypeScript/JavaScript, React, Astro, LangChain, and Qdrant

- Developed an [interactive AI resume assistant chat application](#) capable of answering questions about education, work experience, and technical skills
- Implemented Retrieval-Augmented Generation (RAG) architecture using Qdrant and LangChain to ground AI responses in my personal resume and project data.

Emotion Detection Using Deep Learning | [GitHub](#)

Python, Tensorflow, Keras, Scikit-Learn, OpenCV, Dlib

- Developed a deep learning approach to detect five distinct emotions from facial expressions in images, utilizing Multi-Layer Perceptrons, Convolutional Neural Networks, and transfer learning with VGG.
- Achieved 76.9% accuracy using transfer learning — surpassing human accuracy of $65 \pm 5\%$ on the fer2013 dataset.

TECHNICAL SKILLS

Languages: Python · R · JavaScript/TypeScript · HTML/CSS · Java · LaTeX

ML & Data Eng: PyTorch (vision & NLP) · TensorFlow/Keras · Scikit-Learn · LangChain (RAG) · LangFuse · Prompt Eng.

Software & DevOps: Node.js + Express · React & Astro · n8n/Windmill (workflow automation) · Git & GitHub Actions