SIDDHANTH DUGGAL

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EDUCATION

University of British Columbia Sep. 2022 – May 2027
Bachelor of Science in Statistics and Biochem (Combined Major in Science) *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.

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.
- Used Dlib's frontal face detector to plot 68 key facial landmarks, and employed Sci-kit to standardize the data.
- Achieved 76.9% accuracy using transfer learning — surpassing human accuracy of 65 ± 5% on the fer2013 dataset.

Predicting Email Spam Using Keyword Checking | GitHub *R, Tidyverse, Tidymodels, Repr, Cowplot*
- Developed a K-NN classification model on the UCI Machine Learning's spam email database.
- Cleaned and wrangled information derived from 4601 emails and implemented forward selection on 57 variables.
- Trained and tested the model to achieve an accuracy of 84.36%

TECHNICAL SKILLS

Languages: Python, R, Java, JavaScript, HTML/CSS, Dart/Flutter
Libraries & Frameworks: PyTorch, Tensorflow, Keras, Scikit-Learn, OpenCV, Pandas, NumPy, Dlib, Matplotlib, Seaborn, Tidyverse, Tidymodels, React, Git, GitHub Actions