**Pranaav Iyer**

Fremont, CA | P: +1 408-863-2110 | pranaav.iyer@gmail.com

**EDUCATION**

**PURDUE UNIVERSITY** Fort Wayne, IN

Bachelor of Science Expected May 2025

Major in Computer Science; Minors in Mathematics and Business

Cumulative GPA: 3.4

Relevant Coursework: Data Structures, Linear Algebra; Software Engineering; Computer Architecture; Statistical Methods, Intro to C; Java 1&2; Computer in Business (Excel Training)

**VALLEY CHISTIAN HIGH SCHOOL** San Jose, CA

Cumulative GPA: 3.7 Jul 2016 - Jul 2017

**WORK EXPERIENCE**

**AVYAY SOLUTIONS**  San Jose, CA

Machine Learning Intern May 2022 – Aug 2022

* Analyzed data sets that companies gave of products with the Pandas library, and created a visualization using machine learning algorithms (Random Forest Model, KNN, Pandas, Plotly, Seaborn)
* Conducted independent research and wrote a whitepaper for image learning for backend engineers and new additions to the company
* Used hours of research and recruited the help of google engineers and specialists in the AI field to solve problems for customers
* Created a whitepaper document for the uninitiated to learn Image AI (OCR), used in presentations and development of the KAI product
* Used image learning to scan labels and output the information into a model

**KRYPT, INC.** San Jose, CA

Documentation Intern May 2019 – Aug 2020

* Helped write, review, and update technical specifications and documentations for their AI and Machine Learning product
* Learned about Global Trade, Harmonized Classification
* Helped with presentation advertising to potential customers
* Independently researched on SQL
* Consisted of 2 summer sessions

**UNIVERSITY PROJECTS**

**AI TRADING BOT** June 2021

* Developed a ThinkorSwim trading bot that legerages artificial intelligence to analyze market data and chart signals in real-time
* Mastered the principles of trading, including fundamental and technical analysis, trading strategies, and the ThinkorSwim platform’s advanced charting and technical analysis tools
* Designed and implemented algorithms that can process vast amounts of market data, identify potential trading opportunities, and execute trades with speed and precision
* Created an “aggressive” style of trading, utilizing volume movements to capitalize on quick, reliable take-profits
* Bridged the gap between complex financial markets and everyday traders by providing a tool that enhances trading strategies, reduces risk, and increases profits

**VOICEWISE – VOICE RECOGNITION SOFTWARE** August 2023

* Developing PyTorch-based voice recognition software with the capability to distinguish between human and AI-generated voices in audio inputs
* Mastered the complex PyTorch deep learning framework, and overcame the steep learning curve to build a robust voice recognition model
* Invested substantial time and effort in scouting and curating diverse datasets containing AI and human voices to ensure accurate voice differentiation
* Promises implications for security, voice assistance, and the enhancement of human-AI interactions

**ACTIVITIES**

**Quantum QIskit Fall Fest** Fort Wayne, IN

School Hackathon Oct 2023

* Participated in the Quantum Fall Fest Hackathon organized by Purdue University Quantum and AI Center (QUAIC) and the Department of CS
* Attended workshops covering Quantum 101 and introducing Qiskit to build foundational knowledge in quantum computing
* Worked with a team of 4 others to develop a simple Quantum Key Distribution program
* Created a secure quantum key distribution protocol that guarantees unbreakable encryption for sensitive data

**ADDITIONAL**

**Technical Skills**: AI/Machine Learning, HTML/CSS/Tailwind, Python, React.js, SQL, Docker, OCR, Java, C

**Languages:** Fluent in Tamil, Proficient in Spanish, Beginner in Arabic