

Pranaav Iyer

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SKILLS

Programming Languages: Python, React.js, SQL, C/C++, Java, Javascript, CSS, HTML
Development Tools: Docker, Flask, Jupyter Notebook, OpenCV
AI/Machine Learning: TensorFlow, PyTorch, NLP, OCR, Automation

EDUCATION

NEW YORK UNIVERSITY

Master of Computer Science: GPA – 4.0/4.0

Courant Institute of Mathematical Sciences

Relevant Coursework: Algorithms, Artificial Intelligence, Programming Languages, Machine Learning, Operating Systems

New York City, NY

Expected May 2027

PURDUE UNIVERSITY

Bachelor of Science: GPA – 3.7/4.0

Major in Computer Science; Double Minor in Mathematics and Business

Relevant Coursework: Data Structures, Linear Algebra; Software Engineering; Computer Architecture; Statistical Methods, Database Systems, Computer Security, Computer Networks, Analysis of Algorithms

Fort Wayne, IN

Jul 2021 - May 2025

WORK EXPERIENCE

AVYAY SOLUTIONS

Machine Learning Intern

San Jose, CA

May 2022 – Aug 2022

- Improved OCR model accuracy by 15% through targeted data profiling, outlier reduction, and redesigned preprocessing pipelines.
- Conducted advanced EDA using Pandas/NumPy/Matplotlib, identifying failure patterns and reducing input noise across training samples.
- Collaborated directly with Google OCR engineers to author a comprehensive OCR technical guide, refining extraction heuristics and cutting customer resolution time by 20%.
- Built automated benchmarking tools that expanded performance test coverage by 40% across real-world OCR scenarios.

KRYPT, INC.

Documentation Intern

San Jose, CA

May 2019 – Aug 2020

- Produced and streamlined 20+ pages of AI/ML technical documentation, improving onboarding speed and clarity by 25%.
- Interviewed senior engineers to capture workflows and convert them into standardized technical references using documentation templates and terminology guides adopted by engineering and QA teams.
- Supported a compliance classification initiative projected to enhance regulatory alignment by 20% by 2024.
- Completed 200+ hours of hands-on exposure, gaining operational understanding of AI labeling workflows and product release cycles.

LEADERSHIP

ASL VIDEO TRANSLATOR

August 2024 - Present

- Designed a real-time ASL-to-English system using OpenCV, MediaPipe, TensorFlow, and ChatGPT, achieving sub-150ms inference latency. Built a multimodal architecture combining pose landmarks, sequential models, and LLM prompting for contextual translation accuracy.
- Authored two research papers submitted to IEEE and JMAI, detailing architecture, training methodology, and evaluation metrics.
- Developed automated pipelines for training, hyperparameter tuning, and performance visualization.
- Lead unlearned teammates on ML pipeline development and guided them through supporting module implementation.

AI TRADING BOT

June 2021 – Present

- Founded and led the development of a fully automated AI-driven trading platform built around ThinkorSwim APIs, custom indicators, and rule-based execution frameworks.
- Directed research into technical analysis, price-action behavior, and algorithmic trading strategies, translating insights into systematic, real-time decision engines.