

Shaan Chanchani

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EDUCATION

Purdue University

B.S.E in Computer Engineering | Concentration in AI/ML | Major GPA: 3.5

West Lafayette, IN

May 2025

EXPERIENCE

Machine Learning Engineer, [HuddleVision](#)

Miami, FL — Remote

August 2024 – Present

- Designed and developed a state-of-the-art computer vision system combining field registration and player tracking models, enabling automated analysis of football film
- Trained a self-supervised deep learning model for field registration, leveraging synthetic data generation techniques to enhance performance on diverse game footage; achieved **97%** median accuracy on unseen test data
- Architected scalable ML backend on GCP to deploy computer vision models for production video analytics services
- Partnered with Tracking Football to deliver advanced performance metrics to **100+** scouting departments across NFL teams and all FBS D1 conferences, revolutionizing the talent evaluation process at the collegiate and high school levels

Software Consultant, BTB Analytics

Remote

Jan 2025 – Present

- Developed ETL pipeline to aggregate College Basketball data from 5 sources, leveraging direct HTML scraping and Selenium-based extraction for dynamic content sites
- Automated updates to processed data every 5 minutes using GitHub Actions to allow for real-time integration with R Shiny dashboard

Teaching Assistant, ECE 57000

Purdue University, West Lafayette, IN

Jan 2025 – Present

- Supporting graduate-level Artificial Intelligence course through grading assignments and hosting weekly office hours

Undergraduate Researcher, Video Analytics for Daily Living Lab

Purdue University, West Lafayette, IN

Aug 2022 – Present

- Leading research on deep learning approaches for pose estimation, developing techniques for limited dataset scenarios
- Led evaluation of animal detection models on large-scale wildlife datasets, processing **1.5 TB** of camera trap footage
- Developed a GIS web-app for visualizing and analyzing species classification results at wildlife camera traps

Software Engineering Intern, John Deere

Waterloo, IA

May 2024 – August 2024

- Trained and deployed XGBoost model predicting factory station-to-station time, achieving **118%** higher accuracy than existing system metrics
- Built end-to-end data pipeline using SQL and PySpark to process **10M+** records from Oracle/SQL Server databases through enterprise data lake, including custom feature engineering to maintain accuracy during shift changes and breaks
- Containerized solution with REST API utilizing Databricks Model Serving, integrated real-time inferencing within codebase managing autonomous material delivery robots using Python
- Generated **\$10M+** in projected annual savings by preventing manufacturing bottlenecks with early intervention; awarded **2nd** place in company-wide hackathon

Teaching Assistant, ENGR-132

Purdue University, West Lafayette, IN

Jan 2022 – May 2022

- Deployed weekly scripts to grade MATLAB assignments from over **150** first year engineering students

SKILLS

Languages: Python, C/C++, PySpark, MATLAB, SQL, JavaScript, TypeScript

ML/Data: PyTorch, Scikit-learn, MLflow, Tensorboard, NumPy, Pandas, Polars, Databricks, OpenCV, SciPy, Optuna

Web/Cloud: React, NextJS, FastAPI, Flask, GCP, AWS, Docker, Streamlit

Tools: Git, GDB, gcc, Valgrind, Make