

Tanay Pant

Email: pant_tanay@berkeley.edu | Phone: (630) 890-7493 | Berkeley, CA

[Website](#) | [LinkedIn](#) | [GitHub](#)

EDUCATION

University of California, Berkeley

GPA: 3.8/4.0

Majors: Data Science (BA); Economics (BA)

Aug 2024 – Dec 2027

Relevant Coursework: Probability, Data Structures, Econometrics, Data Science Principles

TECHNICAL SKILLS & COMPETENCIES

- **Programming Languages:** Python, R, C#, Java, SQL, TypeScript, React, Next.js, Pandas
- **Data Science & ML Tools:** Databricks, Scikit-Learn, OpenCV, PyTorch, Power BI, Excel, PettingZoo
- **Methods:** RESTful APIs, Reinforcement Learning, Time-Series Feature Engineering, Geospatial Analysis

PROFESSIONAL EXPERIENCE

John Deere

Moline, IL | Chicago, IL

Data Science Intern (2026) | Data Analysis Intern (2025)

May 2025 – Aug 2026

- Selected for accelerated return offer to continue analysis work in the sales pipeline division.
- Engineered 10+ multivariate regression and time-series forecasting models to predict factory-to-sale latency.
- Designed statistical anomaly detection system to isolate shipping irregularities; improved baseline data integrity.
- Directed cross-functional technical onboarding and professional development initiatives for fellow intern cohorts.

NASA: Data Discovery Program

Berkeley, CA

Student Researcher (Machine Learning)

Jan 2026 – May 2026

- Deployed Deep Learning models (LSTMs) assisted by NASA researcher Dr. Irina Kitiashvili to predict the emergence of Solar Active Regions before they manifest in the photosphere.
- Achieved 80% reduction in background noise; built multiple Python data pipelines to process higher-dimensional satellite imagery, converted raw sensor data into clean normalized inputs for model training.
- Analyzed acoustic power maps with CV techniques to identify subsurface precursors to solar flares, optimized model latency for real-time operational forecasting.

PROJECT EXPERIENCE

[PlayPokerGTO.com](#)

Berkeley, CA

Creator; Full-Stack Engineer

May 2026 – Jun 2026

- Architected and deployed a scalable consumer-facing web application using React and Node.js, hosted on Vercel to deliver accessible Game Theory Optimal (GTO) poker solutions.
- Integrated Supabase to handle real-time database querying; Resend to automate targeted user email workflows.
- Engineered Monte Carlo engine to execute 1,000+ iterations/puzzle, calculate equity with minimal latency.

[Coup RL](#)

Aurora, IL

Creator; ML Engineer

Jun 2026 – Jul 2026

- Achieved 62% win rate against 24% baseline using PettingZoo, RayRllib, and Fictitious Self-Play training.
- Designed multi-agent RL environment; translated complex hidden-info Coup mechanics into rigid state machine.
- Architected and deployed custom AlphaZero-based learning model and web app, leveraging Monte Carlo Tree Search (MCTS) alongside a custom-trained LSTM to handle POMDP states.

Cal Blueprint Ecovet StartX

Berkeley, CA

Full-Stack Engineer

Jan 2026 – May 2026

- Rebuilt the StartX Ecovet platform; replaced legacy codebase with a modular, highly scalable component design.
- Engineered 10+ reusable UI components using React, enforcing TypeScript interfaces to eliminate runtime errors.
- Collaborated with cross-functional teams of designers/back-end engineers to integrate realtime Supabase features and RESTful APIs, ensuring seamless asynchronous data flow and state synchronization.

Bay Area Opportunity Mapper

Berkeley, CA

Creator; Geospatial Engineer

Oct 2025 – Dec 2025

- Deployed interactive geospatial web app using Streamlit and Folium to explore trends in economic mobility, class disparity, and crime across San Francisco Bay Area census tracts.
- Engineered data pipelines to merge demographic data with economic opportunity indices, handling normalization.
- Designed a user-friendly interface allowing dynamic filtering by rent, income level, human capital, crime, etc.

Drone Vertical Wind Shear Prediction

Aurora, IL

ML Engineer

Dec 2025 – Jan 2026

- Evaluated consumer drone telemetry as virtual atmospheric sensor via reverse-engineered Mavic Mini flight logs.
- Built virtual sensor pipeline; extracted 10Hz IMU and motor data to model low-altitude wind shear.
- Developed a Random Forest Regressor to predict vertical wind profiles, calibrated drone motor struggle against ground-truth data from the OpenWeatherMap API to quantify unmodeled atmospheric risks.