

Trusten Lehmann-Karp

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EDUCATION

Harvey Mudd College

B.S., Engineering, Spanish Minor

Dean's List

Claremont, CA

Aug. 2024 - May 2028

- Relevant Coursework: Computer Science, Digital Electronics and Computer Engineering, Multivariable Calculus, Linear Algebra, Engineering Design, Engineering Systems, Physics Mechanics, Probability and Statistics

EXPERIENCE

AI/ML Engineering Intern

New York, NY

EXL

Jun. 2026 - Present

- Architected end-to-end news NLP pipeline, extracting text/metadata, storing results in self-designed SQLite Schema.
- Engineered a transformer-based enrichment layer across 6 dimensions, paired with spaCy NER, allowing for topic, intent, format, political orientation, and industry classification, as well as overall and entity level sentiment analysis.
- Built an interactive Streamlit dashboard for visualizing enriched articles, for enterprise media stakeholders.

Machine Learning Engineer

New York, NY

Priori Sport

Jul. 2025 - May 2026

- Built machine learning models to quantify on-field behavior for professional and collegiate soccer teams.
- Designed and evaluated advanced performance metrics including expected goals (xG, AUC .761), expected assists (xA, AUC .981), pressing effectiveness, and a continuous-possession model, using 3.2M+ events.
- Developed end-to-end Python pipelines for feature engineering, model training, validation, and visualization, creating interpretable performance metrics bridging raw data and match film for coaching workflows.
- Transitioned from internship to part-time role based on sustained ownership of modeling and analytics deliverables.

Software Engineer Intern

New York, NY (Remote)

Astral

May 2025 - Jul. 2025

- Developed a modular Python SDK for AI agent prototyping, enabling rapid integration with multiple LLM backends.
- Designed evaluation framework benchmarking 8+ LLM orchestration tools, informing product roadmap.
- Built scalable web-scraping pipelines to automatically ingest and normalize documentation across 10+ AI platforms.

AI Engineering Intern

New York, NY

Neuroaide

Dec. 2024 - Jan. 2025

- Structured and cleaned neuropsychological assessment data to improve quality of AI-generated clinical reports.
- Optimized data workflows and database schemas, reducing report error rates and turnaround time.

SELECTED PROJECTS

AI-Powered Consultant Knowledge Base

Full-Stack AI application | Next.js, FastAPI, pgvector

- Independently built a full-stack AI knowledge platform for querying PDF documents using LLMs and vector search.
- Implemented semantic memory with pgvector + OpenAI embeddings, enabling project-level and global retrieval.
- Deployed production system on Vercel (frontend) and Railway (backend) with usage analytics.

Agentic AI College Advisor

Project Management | Full Stack Development

- Lead PM 7-member team building AI advisor using LLMs and vector search to generate personalized degree plans.
- Coordinated model iteration, evaluation, and frontend/backend integration to align outputs with real-world uses.

Profile Matching Algorithm

Model Development | BERT Fine-tuning

- Fine-tuned BERT model for intelligent profile matching for mobile app, improving recommendation accuracy.
- Collaborated with product and design teams to iterate on model behavior using live feedback and engagement metrics.

SKILLS

Programming Languages: Python, Java, C, SQL

AI & LLM: LLM APIs, Hugging Face Models, Embeddings, Vector Dbs, RAG, Agentic Workflows, NLP, Prompting

Machine Learning: Logistic Regression, Random Forest, XGBoost, BERT, Spatiotemporal Modeling, Model Evaluation

Data & Backend: Data Pipelines, Event-Based Modeling, FastAPI, Supabase, REST APIs, sqlite, MATLAB

Frameworks & Tools: spaCy, transformers, scikit-learn, Pandas, NumPy, Next.js, Jupyter, Matplotlib, Git

Languages: Spanish (Intermediate)

ACTIVITIES

Pomona AI Club (P-ai)

Claremont, CA

Project Manager

Jan. 2025 - Present

- Leading and mentoring students in developing applied AI projects and industry-relevant technical skills.

Claremont-Mudd-Scripps Men's Soccer, NCAA DIII

Claremont, CA

Recruited Student-Athlete

Aug. 2024 - Present

- 20+ hrs/week of soccer, enhancing leadership and teamwork skills, 2024 SCIAC Champion, NCAA Sweet-16