therv Vidhate

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DUCATION

University of California, San Diego   La Jolla, CA
Bachelor of Science in Data Science, Minor in Business Analytics   Expected Graduation: 2027

   Built Tau Kappa Epsilon alumni engagement portal using Next.js and React to support donations, networking, and access to chapter history for 1000+ members; implemented SDLC practices, conventional commits, and code review standards.

XPERIENCE

Arti cial Intelligence Intern   Jun 2025 – Present
smartQED

   Fine-tuned a diagnostic LLM on 200+ complex technical reports, signi cantly improving the model's reasoning capability and reducing root cause resolution time by 40% across product support cases.

   Integrated an AI analytics agent with remote SQLite database via Model Context Protocol, enabling real-time analysis pipelines and showcasing next-gen automation frameworks to senior leadership.

   Constructed a high- delity dataset for LLM training by sourcing, cleaning, and structuring over 2GB of raw aviation incident data to support high-accuracy safety prediction models.

Economics Lab Research Assistant   Apr 2025 – Jul 2025
UC San Diego Economics Department

   Engineered an open source data pipeline using the Library of Congress API to extract over 100,000 entries on historical newspaper coverage of 19th-century presidential campaigns.

   Analyzed relationships between historical newspaper titles by constructing directed graphs and applying connected components analysis to identify and group over 300 related publications.

   Developed Python scripts with API pagination and error recovery logic, ensuring 100% data retrieval completion across multi-page JSON responses and optimizing network efficiency.

Associate   Jan 2024 – Present
Triton Consulting Group

   Audited client's product analytics platform and built a scalable, client-facing tagging infrastructure with 100+ unique tags across 20 categorized workflows, enabling long-term data flexibility.

   Initiated and led a targeted outreach campaign that connected with 40+ regional companies, securing new client partnerships and increasing project engagement by over 15%.

   Designed and delivered an interactive Tableau dashboard analyzing member demographics, retention patterns, and growth opportunities, driving data-backed engagement initiatives.

PROJECTS

Concert Scout AI — https://concertscout.app

   Built a full-stack AI-powered concert recommendation system using FastAPI and Next.js for over 150 users.
   Implemented a multi-agent AI pipeline with Google Gemini to deliver personalized concert results.
   Deployed a scalable backend infrastructure with Redis session management and analytics tracking.

Power Outage Analysis — https://atherv.com/poweroutageanalysis

   Used techniques like one-hot encoding, hyperparameter tuning, and cross-validation to build optimized Random Forest models predicting outage severity, achieving a 15% accuracy improvement.

   Conducted data cleaning of a 1,500+ row dataset, transforming time-based data into structured formats and engineering 4 new features for enhanced analysis.

   Evaluated model fairness across populations, con rming equitable performance with high con dence.

MiniGit — https://github.com/athervvidhate/minigit

   Developed a custom version control system in Java, implementing 10+ Git commands with Hashmaps and serialization for efficient data persistence and version tracking.

TECHNICAL SKILLS

Programming Languages: Python, SQL, Java, TypeScript, JavaScript, HTML/CSS
Frameworks & Libraries: scikit-learn, pandas, FastAPI, Matplotlib, React, Tailwind, Spark, Dask
Tools & Platforms: Git, Docker, AWS, Redis, PostgreSQL, Tableau