Kanav Atre

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EDUCATION

Purdue University, College of Science | **West Lafayette, IN**
Senior, Bachelor of Science, Data Science & Applied Statistics | **December 2026**

- Certificate in Entrepreneurship and Innovation; Linear Algebra; Multivariate Calculus; C Programming; Statistics; Intro to Data Science; Theoretical Statistics; Time Series; Data Mining
- Purdue Chess Club – Chess Collegiate League; Purdue Robomaster; VIP; The Data Mine

PROFESSIONAL EXPERIENCE

ketteQ | **Atlanta, GA**
Software Engineer Intern | **Jun 2025 – Aug 2025**

- Contributed to securing three new clients by leading impactful demos for multiple prospective customers, showcasing technical solutions in a business context.
- Delivered interactive KPI dashboards (bias charts, treemaps, stacked bars) tailored for supply chain analysts and VPs, directly enabling faster, data-driven decision-making.
- Built a real-time KPI pipeline integrating Neon, ClickHouse, and PostgreSQL, enabling high-speed analytics and executive decision-making.

Purdue VIP (Vertically Integrated Projects) | **West Lafayette, IN**
Undergraduate Researcher, Ambassador | **Aug 2023 – May 2024**

- Spearheaded strategic growth initiatives for the VIP department, driving a 45% rise in client acquisition and nurturing a thriving community of sponsors, students, and staff.
- Worked with stakeholders and the VIP director to pinpoint and prioritize initiatives, aligning with Purdue's objectives.

Renzoe Box | **West Lafayette, IN**
Data Science Intern | **Aug 2022 – Jan 2023**

- Made improvements to RenzoeMatch model, combining 3-point color matching with LAB-space feature extraction and brightness-normalization logic to produce reliable tone classifications.
- Engineered web-scraping pipelines using BeautifulSoup to collect product data from dynamic websites, directly powering RenzoeMatch's recommendation engine.

PROJECTS

Credify.ai | Real-time Reddit Fact-Checker (CalHacks 12.0) | GitHub
Chrome Extension, OpenAI API, News API, Manifest, Mutation Observer, Node.js, Fetch.AI, UAgents

- Built Chrome extension with multi AI agent architecture to combat misinformation; scores credibility 0-10 using News API verification
- Injected React components into Reddit's Shadow DOM with MutationObserver; orchestrated 3 microservices for real-time analysis

Pedestrian Detection and Analysis (Private Repositories)
Faster R-CNN, Numpy, RELU, Backtracking, Linear Algebra, TensorFlow, OpenCV, Multi-task Loss

- Built a multi-stage pedestrian-detection system (edge detection → bbox with sliding window → SVM → Faster R-CNN with multi-task loss) with training dataset of 6k traffic-camera images from Nome, Alaska.
- Identified a 120% increase in post-Covid pedestrian activity, providing key insights and a deployable model for cross-disciplinary research.

BoilerFixIt | Full-stack Maintenance and Repair Platform | GitHub
React, Node.js, Express.js, MongoDB, JWT auth, Postman, NoSQL, Stripe, Authentication, REST API

- Developed a platform connecting Purdue students with community service providers for repairs and maintenance.
- Co-developed the backend stack with Node.js, Express, and MongoDB/Mongoose, integrating JWT auth, bcrypt-based security, OTP verification, Stripe APIs, and automated email pipelines.

Purdue PURT-UAS Biomed Drone Delivery | GitHub
ROS, Numpy, OpenCV, IR Real-Sense, Deep Learning, COCO, A*, RRT, Reinforcement Learning

- Created a biomedical overdose-response drone using COCO-trained vision models and ROS for autonomous navigation.
- Explored reinforcement learning and graph-based methods (A*, RRT) for real-time path planning.

RELEVANT SKILLS & TECHNOLOGIES

- **Languages:** Python, SQL, Java, C++, JavaScript, C, Bash, R
- **Frameworks & Libraries:** TensorFlow, PyTorch, OpenCV, React, Node.js, Express, Flask
- **ML/AI:** Deep Learning, Machine Learning, Computer Vision, NLP, Neural Networks, Faster R-CNN
- **Data:** Pandas, NumPy, Statistical Modeling, Time Series, ClickHouse, PostgreSQL
- **Systems:** REST APIs, Microservices, JWT Auth, MongoDB, Git, Azure