

Allen Daniel Sunny

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AI researcher and engineer focused on building explainable, user-centered ML systems.

EXPERIENCE

University of Maryland College Park

College Park, Maryland

Graduate Research Assistant

Sept. 2023 - Present

- Designed the data architecture for the Career Services team at the Smith School of Business.
- Automated Power BI dashboards to streamline reporting and improve data transparency.

Kantar Analytics

Bangalore, India

Data Scientist / Associate Data Scientist

Aug. 2018 - Jan. 2023

- Built Walmart's global promotional engine to automate promotions and boost price accuracy.
- Deployed a price anomaly system that flagged e-commerce errors for Walmart Canada.
- Trained GPT-NeoX model to auto-generate product descriptions optimized for SEO.

EDUCATION

University of Maryland, College Park

College Park, USA

Master of Information Management

Aug. 2023 - July 2025

Visvesvaraya Technological University

Bangalore, India

Bachelor of Engineering in Computer Science and Engineering (with Distinction)

Aug. 2014 - July 2018

RESEARCH PROJECTS

Master's Thesis – Tech Policy Lab

Jan. 2025 - Present

- Researching procurement agility, explainability, and public trust in public sector AI.
- Developed and evaluated a legally-defensible XAI prototype for SNAP eligibility.

Oxford AI Policy Group – Systemic Risk Monitoring

Feb. 2024 - Apr. 2024

- Designed a scraping pipeline to track LLM adoption across global sectors.
- Supported risk governance research of foundational models at the University of Oxford.

R Packages – Tools for Interpretable Machine Learning

Jan. 2022 - Jul. 2023

- StructuralDecompose**: R package for decomposing level-shifted time series data.
- TangledFeatures**: R package for feature selection in highly correlated datasets.

ACADEMIC PROJECTS

RADAR: Retrieval Augmented Data Analysis and Representation [Code]

Feb. 2025 - May 2025

- Built a RAG system using LLaMA 3.1 8B to turn text prompts into visualizations.
- Integrated LangChain and Milvus for schema-aware data retrieval.

Dark Pattern Analyzer [Code]

Aug. 2024 - Dec. 2024

- Built a browser extension to detect deceptive UX patterns using DOM analysis and LLMs.
- Included auto-highlighting and GPT-generated inline explanations.

Trust in Transparency: How Explainable AI Shapes User Perceptions

Aug. 2024 - Dec. 2024

- Conducted interviews to explore how users interpret AI-generated explanations.
- Insights shaped an XAI interface for non-expert users.

Exploring the Effects of Explainability on Model Trust

Feb. 2024 - May 2024

- Conducted a survey-based study to assess user trust in different explanation types.
- Applied insights to improve an interactive explainability tool.

TECHNICAL SKILLS

Languages: R, Python, Go, TypeScript, TSQL, VBA

Skills: AI, Machine Learning, Large Language Models, Explainable AI, Prompt Engineering, Retrieval-Augmented Generation (RAG), Qualitative and Quantitative Research, Web Scraping, Data Retrieval, dbt

Frameworks: Transformers, Pytorch, LangChain, React, Redux, Node.js (Fastify), Spark, Druid, Hadoop, Milvus

Developer Tools: Anaconda, RStudio, Git, Google Cloud Platform, AWS, Power BI, Tableau, VS Code, Excel