

Allen Daniel Sunny

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EXPERIENCE

University of Maryland College Park

Graduate Research Assistant

College Park, Maryland

Sept. 2023 – Present

- Designed the data architecture for the Career Services team at the Smith School of Business.
- Developed an automatic reporting system using Power BI.

Kantar Analytics

Data Scientist / Associate Data Scientist

Bangalore, India

Aug. 2018 – Jan. 2023

- Led development of Walmart's pricing and promotional system across global stores.
- Designed Walmart Canada's price anomaly engine to detect e-commerce errors.
- Built a generative product description engine using Eleuther AI's GPT-NeoX.

EDUCATION

University of Maryland, College Park

Master of Information Management

College Park, USA

Aug. 2023 – July 2025

Visvesvaraya Technological University

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

Bangalore, India

Aug. 2014 – July 2018

RESEARCH EXPERIENCE

Master's Thesis – Tech Policy Lab, University of Maryland

- Conducting thesis research at the Tech Policy Lab under Professor Ido Sivan-Sevillia.
- Exploring procurement agility, explainability, and public trust in government AI systems.
- Building and testing a prototype for citizen-centered decision automation.

College Park, USA

Jan. 2025 – Present

Systemic Risk Project – Oxford AI Policy Group

- Collaborating with the Oxford AI Policy Group to monitor foundational model usage.
- Built a global scraping pipeline to track AI model adoption trends across sectors.

College Park, USA

Feb. 2024 – Apr. 2024

FORMAL Lab – Foundations of Reliable Machine Learning

- Working under Prof. Sanghamitra Dutta on explainability methods for LLMs.
- Building open-source tools for feature attribution and interpretability.

College Park, USA

Sept. 2023 – Dec. 2023

Kantar Innovations (R&D)

- Led R&D initiatives in explainable AI and time-series modeling.
- Developed enterprise-grade reusable components for large-scale ML deployment.

Bangalore, India

Mar. 2020 – Jan. 2023

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

PUBLICATIONS / PAPERS

- **Dark Pattern Analysis:** A browser extension that detects deceptive UX patterns using DOM inspection and LLMs. Code
- **RADAR – Retrieval-Augmented Data Analysis and Representation:** A RAG-powered LLaMA 3.1 8B system for generating explainable data visualizations from natural language. Code
- **Trust in Transparency:** Exploring the XAI and trust in AI using Qualitative research methods
- **Explainability and Trust in AI: A Quantitative Approach**
- **StructuralDecompose:** An R package for seasonal decomposition of time series.
- **TangledFeatures:** An R package for feature entanglement visualization.
- **Disease Diagnosis using Machine Learning** — classification techniques applied to patient symptom data.