Allen Daniel Sunny

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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.
- Developed an automatic reporting system using PowerBI

Kantar Analytics   *Bangalore, India*
Data Scientist/Associate Data Scientist   *Mar. 2020 – Jan. 2023*
- Led research and development for Walmart's pricing and promotional system. The system automatically adjusts prices across all Walmart stores.
- Led the design of Walmart Canada's price anomaly engine that dynamically detects incorrect prices across Walmart's E-commerce platform.
- Designed a system that automatically generates product descriptions on E-commerce platforms using Eleuther AI's GPT-NeoX

Business Analyst/Trainee Business Analyst   *Aug. 2018 - Mar. 2020*
- Part of an international effort to analyze Microsoft's cloud computing spend patterns. I led a small team from Kantar Bangalore partnering with teams based in Chennai and Durham (USA).
- Built Python based solutions for teams across Kantar

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 EXPERIENCE

Systemic Risk project for the Oxford AI Policy Group   *College Park, USA*
- Working with the Oxford AI Policy group to map usage of foundational models   *Feb 2024 – Present*
- Built a web scraping system to monitor model adoption worldwide

FORMAL, FOundations of Reliable MAchine Learning lab: *College Park, USA*
- Working under Professor Sanghamitra Dutta.   *Sept 2023 – Present*
- Building open source methods to extract explainability for LLMs.

Kantar Innovations (R&D):   *Bangalore, India*
- Set overall research directions in consultation with business teams.   *Mar 2020 – Jan 2023*
- Built reusable algorithms specializing in explainable AI and time series analysis.
- Studied and designed methods on how large scale AI systems can be quickly implemented and trusted.

TECHNICAL SKILLS

Languages: R, Python, TSQL, HQL, VBA, SQL (Postgres), JavaScript, HTML/CSS, C/C++
Frameworks: Apache Spark, Apache Druid, Hadoop, MongoDB, Sphinx, React, Node.js, Flask
Developer Tools: Anaconda, Rstudio, Git, Google Cloud Platform, PowerBI, Tableau, VS Code, Visual Studio, Excel

PUBLICATIONS

- Disease Diagnosis using Machine learning: http://ijiet.com/wp-content/uploads/2018/06/3.pdf
- StructuralDecompose : https://cran.r-project.org/package=StructuralDecompose
- TangledFeatures : https://cran.r-project.org/package=TangledFeatures