

Dinesh Vasireddy

Harvard University | Software Engineering | Data Science

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Education

Harvard University

A.B. Computer Science, Statistics, and Government

Cambridge, Massachusetts

Aug. 2023 – May 2027

- Primary Activities: Harvard Innovation Labs (Venture Program), Harvard Under. Data Analytics Group, Tech for Social Good

Bentonville High School

High School Diploma, 4.701

Bentonville, Arkansas

Aug. 2019 – May 2023

- Notable Awards: Valedictorian, National Merit Scholar, Coca-Cola Scholarship Reg. Finalist, Presidential Scholarship Finalist

Professional Experience

Harvard Undergraduate Data Analytics Group

Data Scientist (Contract)

Cambridge, Massachusetts

Oct. 2023 – Present

- Collaborated on a Data Science-focused consulting project for a subsidiary of large Fortune 500 US-based aviation client. Employing advanced statistical methods, including Monte Carlo Risk Analysis, Market Segmentation Modelling, in Python/ R to analyze high-volume datasets and predict market risks, trends, and generate business recommendations to improve high-value sales channels (\$20M Valuation).

Change Climate Project

Software Engineer (SWE) (Contract)

Cambridge, Massachusetts

Oct. 2023 – Dec. 2023

- Worked with a Case Team of Harvard Tech for Social Good SWEs to develop a Generative AI tool (Used by 347 Global Brands, Continues Carbon Offsetting of 1.3M+ Tonnes) focused on generating more comprehensive sustainability plans for governmental organizations, non-profit groups, and international companies.

Arkansas United

Software Engineering Consultant

Little Rock, Arkansas

Oct. 2022 – Jun. 2023

- Developed and launched an online automated resources portal AUNow (2K+ National Users, 10+ Partners, 50K Visits, Largest in Arkansas). Created machine learning models for electoral analysis and social media listening to develop optimized technology-related policy proposals, most notably for statewide race and ethnicity data tracking (Presented to Governor Asa Hutchinson).

Datategy NextGen AI Solutions

Data Science and AI/ML Intern

Paris, France

Jun. 2022 – Sep. 2022

- Developed, optimized, and deployed three new machine learning algorithms, focused on financial analysis and data management, for Datategy's PapAI Business AI Platform (20+ International Clients, \$3.6M Valuation) and contributed to company-wide strategy development for business outreach, industry expansion, and feature creation.
- Notable Client Work: Optimization of Funding Allocation for French Economy Ministry, Data Management for European Hospitals

Walmart Global Technologies

Software Engineering and Data Science Intern

Bentonville, Arkansas

Sep. 2021 – May 2022

- Created and deployed a global E-Commerce Demand Forecasting Model (80% Accuracy, Used by 152K Merchants, Impacts 300M+ Users, Optimized Sales for 6.5M+ Products) of Walmart.com sales to optimize online Apparel sales; Developed effective sales strategies that compete with other retailers using advanced predictive analytics.
- Other Notable AI/ML Projects: Review Sentiment Analysis, Efficient Product Bundling, Store Layout Optimization, etc.

University of Arkansas SEEDS Center

AI/ML Research Assistant and Investigator

Fayetteville, Arkansas

Apr. 2021 – Jun. 2023

- Conducted and led NSF-sponsored research advised by Prof. Qinghua Li at UARK's Cybersecurity Center for Secure Evolvable Energy Delivery Systems (SEEDS) investigating the use of language learning models and machine learning algorithms (Doc2Vec, Fast.ai, Advanced BERT Models) to improve the Common Vulnerability Scoring System and effectively classify computer system vulnerabilities. Accepted for publication by TechConnect for Resilience Week 2023 in Washington D.C.

Independent Project Work

PolyData Electoral Innovation Network

Sept. 2021 – Jun. 2023

- Developed and distributed a collection of contract-bound AI-driven election analysis models focused on optimizing political campaign operations, interpreting electoral outcomes, and understanding voter behavior in local, state, and federal elections.
- Notable Client Contract Projects: Voter Pulse: Inactive Voter Identification Model (Acquired by 8 Campaigns), Electoral Report Generator (Acquired by 4 Campaigns & Government Offices), Immigrant Resources Portal (2K Users in Arkansas), Federal Election Simulations (Presented to 10+ State Politicians), etc.

AnyCheck: Intelligent Fact Verification

Nov. 2023 – Dec. 2024

- Developed a web application utilizing a custom-trained large language model enhanced via relevant news articles, integrated speech recognition, and real-time analytical feedback, designed to enhance information accuracy through voice-activated claims submission and comprehensive PDF essay analysis.

CinemaFuture: AI-Powered Film Success Prediction

Dec. 2023 – Jan. 2024

- Developed a machine learning application that combines extensive data analysis from IMDb, Box Office Mojo, and TMDb, sophisticated feature engineering, and advanced machine learning models including sentiment analysis from Instagram and YouTube Trailer comments, to forecast film success and provide data-driven insights into the lifecycle of upcoming films in Hollywood.

Relevant Skills

- **Technical Languages:** Python, Java, R, JavaScript, HTML, CSS, Swift, C++, MERN Stack (MongoDB, React.js, Express.js, Node.js)
- **Technical Skills:** Data Science, AI/ML, Software Engineering, Web Development, UI/UX Design, Large Database Management
- **Core Interests:** Market Segmentation, Sales Optimization, Demand Forecasting, Electoral Science, Social Analysis, Governmental Operations