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Top Skills

Docker

Artificial Intelligence (AI)

Large Language Model Operations (LLMOps)

Dave Wang

Master of Engineering, AI for Product Innovation at Duke University. I make ML models and develop and apply AI solutions to serve your business objectives.

Durham, North Carolina, United States

Summary

I bring a robust background in Machine Learning and LLM-based applications. I am adept at transforming both structured and unstructured data into actionable insights.
My strength is in creating end-to-end data projects, ensuring impactful results from idea inception to implementation.

Experience

Auritas

AI Engineering Intern

May 2025 - Present (8 months)

Durham, North Carolina, United States

- Develop a deep understanding of the AI tool offered by SAP, Joule. This includes studying its features, functionalities, and potential applications within our projects.
- Deliver periodical analysis/research of AI integration in internal processes and business units, including marketing, sales, and professional services.
- Conduct thorough analyses of the AI capabilities provided by the SAP Business Technology Platform (BTP) and how they can be leveraged to enhance our existing solutions.
- Investigate and understand the connection points between SAP Joule and SAP application development.
- Periodically present detailed recommendations for the integration of AI with the Auritas Data Suite.
- Collaborate with senior team members to develop a comprehensive framework for the integration of AI within Auritas.
- Conduct ongoing research on the latest trends and advancements in AI technology. Document your findings and provide actionable insights that can be utilized by the team.
- Participate in training sessions and knowledge transfer activities to ensure that your understanding of AI tools and methodologies.

- Provide feedback on existing AI processes and suggest improvements. Input will be valuable in refining our AI strategies and achieving better outcomes.

Vedya Labs
AI Developer
January 2025 - April 2025 (4 months)
Durham, North Carolina, United States

[Master's Capstone Project in a Team of 3]
- Developed a Financial Analyst AI from scratch to work with Excel sheets to answer, calculate, and , given any user query. The project is intended to be used by financial analysts, data analysts, and data entry staff who would like to speed up their analysis.
- Adopted LlamaIndex for orchestration, with Cohere Command R Plus large language model. Designed a fully-functional data-processing pipeline with several custom prompt templates and data transformation scripts.
- With help of teammates, deployed the finished application with FastAPI and deployed front-end application on Duke University's virtual computing resources.
- Conducted test cases simulating realistic scenarios of user inquiries. Achieved 100% accuracy on simple tasks, 80% accuracy on intermediate tasks, and 50% on advanced tasks.

Davis Data Science Club
Technical Team Officer
February 2022 - May 2024 (2 years 4 months)
Davis, California, United States

1. Credit Fraud Detection: Identified key variables using A/B testing and feature selection techniques. Developed an end-to-end data transformation data pipeline for an imbalanced dataset, providing business intelligence on fraud risks.

2. SF Airport Traffic Forecasting: Deployed a Streamlit Web App to forecast SF international airport traffic. Utilized time-series modeling (ARIMA and smoothing) to identify trends and seasonal cycles. Reduced prediction errors by 18% with new, engineered probabilistic features.

3. Customer Churn Risk Score Classification: Discovered causes of customer turnover with multivariate statistical analysis, feature selection, optimization of ML algorithms, and deployed a Streamlit Web App. Identified business areas

with the highest churn risk by using pivot tables. Capped outliers that skew prediction results.

Co-developer of 2 SQL workshops for 75+ club members, 72% of participants rating 7/10 or higher

University of California, Davis
4 years 4 months

Student
September 2019 - December 2023 (4 years 4 months)
Davis, California, United States

Statistics Major, Communications Minor,
3.73 GPA;
Statistics Departmental Citation (Greatest Contribution to Students and Faculty, 2023-2024)

Peer Advisor
September 2022 - August 2023 (1 year)
Davis, California, United States

Advised 120+ students on degree planning, major and minor changes, career positioning, and policy inquiries.
Helped coordinate faculty and student events and on-site support, including speeches and
Demonstrated strong interpersonal and professional communication, receiving positive feedback from peers.

Freshmen Seminar Research Team member
September 2019 - December 2019 (4 months)
Davis, California, United States

Participated in a fresh men research seminar, conducting research about the archive page of the UC Davis STEM portal to provide data-driven recommendations to the Provost Office on improving the site.

ICRA
Machine Learning Intern
June 2022 - September 2022 (4 months)
Remote

Reduced prediction errors by 50%+ by building a computer vision model for agricultural produce counting with TensorFlow object detection API.

Applied image annotation, augmentation, and modification to build a high-quality dataset for multiple weather conditions and optimized the model with more images.

MentorX.net
Data Science Program Trainee
March 2021 - December 2021 (10 months)
United States

Used a random forest model to predict if a customer's inquiry is answered, resulting in a 20% increase in the identification of unsatisfied customer inquiries.
Applied feature engineering and imputation techniques to an imbalanced customer service dataset with missing values.

Education

Duke University
Master's degree, Artificial Intelligence · (August 2024 - December 2025)

University of California, Davis
Bachelor of Science - BS, Statistics