KRISH ARORA

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Education

University of California, Berkeley **May 2026**
B.A., Data Science; B.A., Applied Mathematics
Relevant Coursework: Algorithms for Machine Learning, Data Structures & Algorithms, Multivariable Calculus, Principles and Techniques of Data Science, Linear Algebra, Differential Equations, Discrete Math, Probability Theory, Macroeconomics
Awards: PwC Case Competition: 1st Place, Bio-Rad STEM Scholar, Irvine ML Competition 2nd Place, BSA Eagle Scout

Experience

Momentus Technologies **Berkeley, CA**
Product Management Intern *Aug 2024 – Present*
- Utilized Pendo to analyze comprehensive financial & usage metrics for 12 core products, leveraging data-driven insights to enhance product functionalities and optimize development costs, resulting in a 25% increase in user-generated revenue
- Identified and presented ticketing/registration as expansion opportunities, resulting in a 40% increase in user acquisition

Global Key Advisors **San Francisco, CA**
Quantitative Analyst Intern *Jun 2024 – Aug 2024*
- Engineering an NLP model through GESIM in analyzing trends in MD&A length analysis for 30,000 startup companies for stock price predictions; utilized sentiment analysis & readability scales for concise information clarity (83% accuracy)
- Implemented an autonomous algorithm using Python and SQL to analyze company due-diligence scores and outcomes
- Led interviews for demand for integrated ticketing and registration solutions, positioning Momentus to expand into this market and capture new revenue streams through targeted product enhancements

Qualcomm **San Diego, CA**
Data Analytics Consultant (Contract) *Jan 2024 – May 2024*
- Redesigned Qualcomm Academy website UI/UX for course/certification offerings towards global corporate users; curated high-fidelity Figma mockups now implemented on the site, resulting in a 60% increase in outsider consumer enrollment
- Established financial models for Qualcomm's offerings, factoring in value propositions, competitor pricing, and market demand in various regions; conducted sensitivity analysis to ensure competitiveness while maintaining profitability

Outer Rim Exploration (ORE) **Berkeley, CA**
Machine Learning Intern *Jan 2024 – May 2024*
- Scraped geospacial muon flux data fine-tune a CNN in detecting underground mineral deposits with minimal excavations
- Derived muon flux and muon intensity equations to accurately calculate subsurface regions as functions of depth/density
- Visualized 3-D subsurface models through Seaborn with generated flux data using Bayesian/MCMC inversion modeling

Project Experience

2-D Interactive World Generator
Java
- Designed and and implemented a 2D tile-based world exploration engine with avatar interactivity and feature scalability
- Developed a reply feature showing all previous actions and a tile renderer displaying tiles in the user's line-of-sight.

Tensor Decomposition for Deep Neural Network Compression
Python, TensorFlow, TensorLy, PyTorch, Pandas, NumPy
- First-authored research paper (published in RMP Journal), 12-min presentation, and technical poster to Ph.D. scholars
- Scrutinized over 25 research papers on tensor-train decomposition methods, higher-order tensor manipulation, and bias extraction techniques, focusing on optimizing deep neural network layers through low rank tensor approximations
- Developed an autonomous algorithm for predicting optimal tensor shape, dictating compression percentages for network layers, and decomposing parameters within neural network layers; increased initial network from 33% to 88.7% accuracy

Spam Email Classifier
Python, Pandas, GridSearchCV, OHE, Seaborn, NumPy, EDA
- Engineered and optimized linear and logistic regression models, employing GridSearchCV for hyperparameter tuning, OHE for feature engineering, and enhanced data quality by identifying and cleaning HTML tags in spam emails.
- Fine-tuned and enhanced model accuracy to 88% using the test set; achieved AUC of 79%

Technical Skills

Technical Languages: Python, Java, SQL, HTML, CSS, JavaScript, LaTeX
Tools: Seaborn, TensorFlow, PyTorch, Keras, PyMC, Tableau, Pandas, Sklearn, Jupyter Notebook, Git, M-Suite, NLTK, QA
Personal Interests: Computer Building, Robotics, Music, Photography, Fashion, Traveling, Spicy Foods