

OBJECTIVE

I'm a Data Scientist interested in understanding people—what shapes their behavior, how they respond, and why. I enjoy creating visualizations that are clear, minimal, and thoughtfully designed. Out of curiosity, I've explored personal data like my movie ratings and blood test results. With a background in Mechanical and Software Engineering, I like combining structure and creativity to make sense of complex data.

EXPERIENCE

McCombs School of Business SEPTEMBER 2024 – JUNE 2025
Post Graduate Program in AI & ML: Business Applications UT Austin - Online

- Stock Market News Sentiment Analysis and Summarization (NLP): Built an AI-driven system to extract and summarize market sentiment from news articles using LLMs, Transformers, Prompt Engineering, and text preprocessing.
- Plant Seedling Classification (Computer Vision): Built an image classifier to distinguish plant seedlings and weeds using TensorFlow, image processing, and transfer learning.
- Bank Customer Churn Prediction (Neural Networks): Developed an artificial neural network from scratch to identify high-risk churn customers using TensorFlow, and Keras.
- Credit Card User Churn Prediction (ML): Built a predictive model to classify churn behavior using Random Forest, Bagging, Boosting, SMOTE, and hyperparameter tuning.
- Personal Loan Campaign (ML): Analyzed customer attributes and built a decision tree model to predict loan acquisition likelihood and guide marketing strategies.
- FoodHub: Performed EDA using NumPy, Pandas, and Seaborn to uncover demand patterns in cuisines and restaurants, and provided business recommendations.

Data Scientist WINTER 2022 – JUNE 2025
Amida Technology Solutions Washington, DC

- Automated veterans' hospitalization report processing using Python, Toad for Oracle, SQL Server, AzureML, and PySpark.
- Generated synthetic EHR data and built a visualization module on i2b2 to compare real vs. synthetic data.
- Analyzed time series data in Python using Meta Prophet and ARIMA.

General Assembly SUMMER 2021
Data Science Bootcamp Washington, DC

- Applied Python for data analysis, visualization, and machine learning using NumPy, Pandas, Seaborn, SQL, AWS, web scraping, Git, Scikit-learn, & TensorFlow.

Software Engineer WINTER 2015 – SUMMER 2021
Netfreedom Pioneers - Knapsack for Hope Los Angeles, CA

- Built an end-to-end automated content management system:
 - Developed platform-specific scrapers for diverse sources and formats.
 - Built a metadata search engine and integrated Google Cloud and Dropbox API.

Data Scientist SUMMER 2014
USC Information Sciences Institute (ISI) Marina del Rey, CA

- Performed network analysis of Twitter users using contextual clustering and collaborative filtering.

Graduate Student Researcher FALL 2009 – FALL 2014
UCLA Beam Control Laboratory Los Angeles, CA

- Evaluated aero-optical wavefront prediction models by comparing experimental data with simulation results.
- Developed a state-space identification method using optimal and adaptive lattice filters for dynamic systems.
- Analyzed optical wavefront flow using spatial and temporal cross-correlation of image data.

Graduate Teaching Assistant FALL 2008 – SPRING 2009
UCLA, Mechanical Engineering Department Los Angeles, CA

- Recitation sessions for Thermodynamics and Dynamics courses.

Undergraduate Researcher SUMMER 2004
UC Berkeley, NSF REU Fellowship Berkeley, CA

- Analyzed how surface roughness impacts the effective elasticity of MEMS devices.

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EDUCATION

- 2025 POST-GRADUATE PROGRAM IN AI & ML
University of Texas at Austin
McCOMBS SCHOOL OF BUSINESS
- 2014 DOCTOR OF PHILOSOPHY
University of California, Los Angeles (UCLA)
MECHANICAL ENGINEERING
SYSTEMS & CONTROL MAJOR
ADAPTIVE OPTICS FIELD
- 2009 MASTER OF SCIENCE
University of California, Los Angeles (UCLA)
MECHANICAL ENGINEERING
- 2006 BACHELOR OF SCIENCE
University of California, Berkeley (UC Berkeley)
MECHANICAL ENGINEERING
THEATER & PERFORMANCE STUDIES MINOR

SELECTED COURSES

- Certificates
 - Time Series Analysis, Forecasting, & ML
 - Applied Data Science with Python
 - Applied Social Network Analysis in Python
 - Applied Text Mining in Python
 - R Programming
 - Machine Learning
- PhD Courses
 - Probability in Dynamical Systems
 - Stochastic Processes & Estimation
 - Linear Dynamic Systems, Real Analysis
 - Linear Optimal Control
 - Process Control: Nonlinear Systems

TECHNICAL SKILLS

- Languages & Scripting: Python, R, MATLAB, Ruby, JavaScript, HTML5, CSS, Bash
- Libraries & Frameworks: TensorFlow, Keras, Scikit-learn, NetworkX, Ruby on Rails, Django
- Data & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Gephi, L^AT_EX
- Big Data & Cloud: Spark, PySpark, Hadoop, AWS (S3, EC2, RDS), GCP (App Engine, Compute Engine, Datastore), AzureML, Heroku
- Databases & Tools: MySQL, Oracle, Microsoft SQL Server, Toad for Oracle
- APIs & DevOps: Google Drive, YouTube, Twitter, Dropbox, Git, Docker

INTERESTS

- Computational Social Science
- Human Cognition
- Natural Language Processing
- Photography
- Social Psychology
- Consumer Modeling
- Web Analytics
- Improv