

Leonid Shpaner

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EDUCATION

University of San Diego – Master of Science (M.S.) - Applied Data Science [GPA: 4.00/4.00]

August 2022

University of California, Los Angeles (UCLA) – Bachelor of Arts (B.A.) - Economics

September 2007

EXPERIENCE

Data Scientist | UCLA Health | Los Angeles, CA | Full-time

April 2023 – Present

- First author of an [abstract published by the American Society of Nephrology](#), successfully reproducing gold-standard kidney function risk equations on internal EHR data; achieved AUCs in the 80th percentile and optimized Brier scores.
- Developed an XGBoost Regression model in production to predict high-cost Medicare Advantage patients (bloomers) year-over-year; successfully implemented system-wide, with an upcoming paper detailing the project's impact and methodology.
- Collaborating with a multidisciplinary team of faculty members and data scientists to extract meaningful and actionable insights from a variety of healthcare data, including but not limited to biomedical and patient-related information.

Data Scientist | Children's Hospital Los Angeles | Los Angeles, CA | Full-time

March 2022 – October 2022

- Conducted research in pediatric ICU, developing an Extra Trees machine learning model to predict mortality one hour post-terminal extubation with 88% AUC; co-authored the paper, which was submitted to [Critical Care Medicine](#) contributing to the team's Early-Stage Researcher Award recognition for the DONATE multisite cohort study.
- Applied identification and PHI checks to a multi-hospital pipeline, subjecting the data to rigorous quality assurance and harmonization standards while facilitating data mining, algorithm development, and model benchmarking.

Sales Data Analyst | Self Mastery Co. | Remote Contractor

May 2014 – December 2023

- Automated sales reports in Excel using VBA and developed SQL queries for revenue aggregation and client KPI analysis.

Financial Analyst | The Los Angeles Film School | Los Angeles, CA | Full-time

September 2013 – October 2020

- Integrated the financial reporting infrastructure into newly adopted CPM software (Prophix), streamlining data processes and contributing to a 20% reduction in expenses through enhanced reporting efficiencies.
- Automated financial reports using VBA macros, significantly reducing department workload by 20 hours monthly and facilitating more data-driven decision-making.

TEACHING EXPERIENCE

Instructor | UCLA Extension | Hybrid/Remote Contractor

August 2023 - Present

- Instructing data science fundamentals course that covers statistics and basic machine learning in Excel and Python.

Adjunct Faculty | University of Maryland Global | Remote Contractor

April 2023 - Present

- Instructing fundamental data science and statistical concepts using Python and R.

Adjunct Faculty | Purdue University Global | Remote Contractor

October 2022 - Present

- Instructing database fundamentals, entity relationship diagrams (Visio), table creation, and SQL queries in Access.

Adjunct Professor | University of San Diego | Remote Contractor

December 2020 – Present

- Designed and currently instructing graduate statistics using Python for the M.S. in Applied Artificial Intelligence program.
- Designed and instructed inaugural course on Excel-based statistics for the Data Analytics Certificate Program.

Course Facilitator in Data Analytics & Statistics | Cornell University | Remote Contractor

November 2018 – Present

- Facilitating courses with focused feedback and guidance on student assignments and projects
- Completed additional [certificates in Data Science and Data Analytics](#) through gift of learning program.

DATA SCIENCE WORKSHOPS

Data Science for Everyone | Centers for Disease Control and Prevention (CDC)/NIOSH

January 21, 2022

- [Led a workshop on Python and R](#), covering dataset preparation, exploratory data analysis, and supervised learning methods, with a practical case study on traffic accidents demonstrating regression and tree-based classifiers.

TECHNICAL SKILLS

- **Programming Language and Tools:** Python, R, SQL, JavaScript, Microsoft Azure, BigQuery, LaTeX, HTML, CSS, Access, Excel, Tableau, Google Data Studio (Looker), Git.
- **Libraries:** *Python* (NumPy, Pandas, Scikit-Learn, MLflow, AutoML, SciPy). *R* (Ggplot, Tidyverse, Caret, e1071).
- **Data Science Principles:** data analytics, visualization, hypothesis testing, data mining, time series, supervised/unsupervised machine learning, predictive modeling, regression, classification, clustering.
- **Languages:** English (fluent), Russian (fluent), and Spanish (basic).