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 open-source 'kfre' Python library to reproduce kidney failure risk equations by Tangri et al., designed for broad use in enhancing predictive analytics in healthcare.
- Co-developed the open-source 'model_tuner' Python library to facilitate comprehensive machine learning workflows, including data splitting, pipeline construction, and model calibration, providing a robust toolset for optimizing and enhancing model performance.
- Developed an XGBoost Regression model in production to predict high-cost Medicare Advantage patients (bloomers) year-over-year; successfully implemented system-wide, with a forthcoming 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 | Litecoin Foundation | Remote | Contractor September 2021 – Present

- Leading a GitHub-based project to build a Python library for cryptocurrency price forecasting, with a supporting white paper under development: Litecoin Forecasting Project.

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 post-terminal extubation with 88% AUC; co-authored a paper for Critical Care Medicine and enforced rigorous data quality and PHI compliance standards, supporting the DONATE multisite cohort study and aiding the team's recognition with an Early-Stage Researcher Award.

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 | Remote | Contractor August 2023 – Present

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

Adjunct Faculty | Purdue University Global | Remote | Contractor October 2022 – February 2024

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

Adjunct Professor | University of San Diego | Remote | Contractor December 2020 – Present

- Co-designed and currently instruct 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.

TECHNICAL SKILLS

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