DMITRIY LEYBEL
AI ENGINEER | DATA SCIENTIST

ABOUT

With a solid track record in developing AI solutions and machine learning systems, I have a commitment to solving complex problems through innovative AI applications, merging Large Language Models with time-tested statistical rigor. I'm passionate about the power of artificial intelligence to transform *data into knowledge* and am eager to work with people and organizations who share that vision.

CONTACT

- 323-698-2177
- dmleybel@gmail.com
- www.prudentpatterns.com
- hippograph.io
- Hillsboro, OR

SKILLS

AI Engineering and System Design
Data Science
Machine Learning
Experimental Design
Analytics Engineering
Data Engineering

EDUCATION

M.Sc. Data Science
Indiana University Bloomington
2016-2017

B.S. Cognitive Science
University of California Merced
2016-2018

WORK EXPERIENCE

Founder
**Hippograph ** Hillsboro, OR | Remote
2023-2024

- Founded a pre-launch knowledge integration and synthesis platform utilizing knowledge graphs in combination with LLMs
- Designed the platform to provide transparent sourcing of information, including file passages, nodes, and edges, to ensure users understand the provenance and rationale behind each response.

Founder | Lead AI Engineer
**Prudent Patterns ** Hillsboro, OR | Remote
2023-2024

- Drive strategic and technological consulting services, with a focus on AI applications, large language models, and the development of machine learning systems and analytics pipelines.
- Tailor robust experimental designs to client needs, ensuring the delivery of actionable insights and data-driven recommendations that enhance decision-making and operational efficiency.

Senior Data Scientist
**Redesign Health ** NYC, NY | Remote
2022 - 2023

- **Led the development of an AI-driven solution** to streamline the startup research process, working closely with research teams to understand their needs for market landscape and competitive analysis. Designed and implemented a Retrieval-Augmented Generation (RAG) pipeline, which automated the processing of extensive research notes and sources into structured, comparative reports, significantly improving the efficiency and depth of strategic insights.
- **Championed startup analytics** by forging partnerships with company leaders to define pivotal growth metrics, orchestrating the selection of a tailored data stack, and driving the implementation of analytical tools. This strategic initiative not only streamlined metric gathering but also empowered data-driven decisions, significantly contributing to the foundational growth and strategic direction of operating companies.
- **Built reporting pipelines**, handling the data engineering, and analytics engineering of our internal systems. Orchestrating the robust flow of data among Looker, Snowflake, Monday.com, and numerous Netsuite instances via Fivetran and DBT.
- Developed internal tools for the understanding of **interoperability across healthcare systems**, dynamically analyzing the various implementations of the FHIR spec.
- Conducted a comprehensive analysis of the messy(and often erroneous) Transparency in Coverage data published by insurers in order to drive the production of our tooling for automated parsing of terabytes of data.

Data Scientist II
**First Tech Federal Credit Union ** Hillsboro, OR | Remote
2019 - 2022

- **Led the creation of a predictive model** to evaluate credit union member delinquency risk and directed a **data-driven experiment** to assess the Special Assets Management team's effectiveness, culminating in strategic insights presented to the CFO and stakeholders.
- **Pioneered the migration of production workflows** to a cloud-based platform - Dataiku, and developed specialized plugins for advanced data ingestion and modeling, significantly enhancing operational capabilities and efficiency.
- **Championed the growth and development of the data science team** through targeted hiring, comprehensive onboarding, and mentorship, fostering a culture of excellence and collaboration.
- **Advanced the Capital Planning process** by designing a robust forecasting model, delivering improved cash flow predictions and cost savings through meticulous back-testing and validation.

Data Scientist
**AppOnboard ** Los Angeles, CA
2019

- Developed an anomaly detection pipeline (Python, scikit-learn) to identify notable trends, improving operational efficiency
- Built trend analysis tool and optimized ETL processes (RedShift, MySQL, Hive), increasing data processing speed
- Delivered insights to top mobile publishers, driving increase in user engagement and CTAs
- Created graphical interface for demo analysis (D3.js), enhancing visualization and refining KPIs
- Led team in machine learning and Python, fostering innovation and continuous learning

Data Science Consulting Services
**Consultant for: CreativEngine ** Los Angeles, CA | Remote
2018

Facial Recognition and Tagging Application for use in US senators' offices
- Engineered and deployed advanced convolutional neural networks for secure facial tagging, enhancing recognition accuracy and context awareness through one-shot learning and automated updates.

Knowledge Discovery and Data Mining for The Table Group
- Led data exploration, delivering insights to stakeholders.
- Built Bayesian and penalized regression models for team performance forecasts.
- Identified key features and patterns using unsupervised learning for strategic client guidance.
- Automated data pipelines and developed visualization tools for business decision-making.