Summary

I'm a passionate, experienced, and results-oriented data scientist with a proven ability to deliver on high-impact initiatives, from developing personalized data-driven products to implementing ML models end-to-end using the latest technical frameworks. Expert in the entire Python DS stack with significant experience in Spark.

Profes	sional Experience	
	trong Health	
	-	2020-present
	Built and deployed machine learning models to help our clinical team provide therapeutic psychiatric services to under-served populations	•
	Estimated clinically-meaningful quantities (sleep, physical activity) from passively-collecte phone data using approaches adapted from the biometric research literature	d
	Helped junior members of the team deploy their models at scale, promoting a culture of collaboration and best programming practices throughout the data organization	
KeepT		
Data S	cientist	2019-2020
	Designed, validated, and deployed ML models on massive, disaggregated datasets product IoT devices installed in 200,000+ vehicles	ed by
	Conducted experiments to understand user behavior and improve engagement outcomes	
	Analyzed the feasibility of new product offerings and delivered my findings to the executive team, quantifying the opportunities to guide product strategy	e
•	Impact	
	cientist	2017-2019
	Led the research arm of the organization, investigating disparities in access to social servi Designed and implemented models, algorithms, and APIs to support in-house initiatives to evidence-based decision making to government policymaking	
	Worked in partnership with the Centers for Medicare & Medicaid Services to measure physically from the nation's largest claims data warehouse as part of a congressionally-mand effort to implement value-based care at a national scale	
Mede <i>l</i>	Analytics	
Data E	ngineer	2014-2016
	Developed two web applications and backend databases for a large state Medicaid agency A big-picture analytics dashboard tracking important public health issues and agency A portal for health professionals to view patients' health information at the point of	cy costs

• Overhauled the ETL process for Medicaid claims to dramatically reduce data latency

Education		
	2014 Masters of Arts, Mathematics, University of Wisconsin-Madison 2012 Bachelors of Science, Mathematics, Stanford University	
_	2012 Bachelors of Science, Mathematics, Stamord University	
Awards		
	2014 Mathematics Graduate Teaching Award, University of Wisconsin-Madison 2012 Phi Beta Kappa Inductee, Stanford University	
Professional Development		
	2016 Data Science Immersive, Galvanize Academy	
Technical Skills & Proficiencies Languages		
-	Expert-level Python; proficient in Java, C++	
	Expert in Spark, both via PySpark and Spark SQL	
	SQL (Snowflake, Redshift, Vertica, Postgres, Hive) and NoSQL (MongoDB, DynamoDB)	
Machine Learning & Statistics		
	pandas, numpy, scikit-learn, statsmodels, scipy, seaborn	
	SparkML, XGBoost, PyTorch, BERT via 🤗 transformers	
	regression, classification, clustering, hyperparameter tuning, feature selection	
	hypothesis testing, bootstrapping, cross-validation, Bayesian inference	
ч	statistical data analysis and causal inference	
Miscellaneous		
	AWS ecosystem, Docker, Kubernetes	
	GIS and spatial algorithms, mapping and data visualization (Looker, Tableau, Redash)	
	Data modeling, API design, high-performance Python, web-scraping, multiprocessing	