

Vijith Jacob Poovelil, Ph.D.

Data Scientist

Salt Lake City, UT, 84102 | (801) 859-3565 | vijith.jacob93@gmail.com | linkedin.com/in/vijith-jacob-poovelil
github.com/vijithjacob93

SUMMARY

- 3 years experience as a Data Scientist in the fintech industry, building, maintaining, and improving key business systems and predictive models
- 4 years of experience as a Data Scientist in academia with a Ph.D. in Physics, applying statistical techniques and machine learning algorithms on big data
- Track record of translating business questions into data science solutions and communicating to business stakeholders
- Strong programming skills in Python, R, and SQL
- Minor in Math, with a strong base in statistics and analytics

EXPERIENCE

Data Scientist

- Arivo Acceptance, West Valley, UT
- Progressive Leasing, Draper, UT

March 2024 - current
August 2021 - March 2024

Recommend and support strategic business changes through rigorous analytics, creative problem solving, and critical thinking.

- Experiments and Hypothesis Testing: Conceived the idea for, designed, and implemented in-market experiments to optimize customer contact strategies, driving a combined incremental revenue of \$10MM
- Machine Learning and Modeling: Built and deployed the following machine learning models from end to end (data collection, feature engineering, model selection, training, validation, and deployment)
 - Uplift random forest models to delay outbound calls to delinquent customers, reducing call costs by 20% and increasing NPS by 10%
 - Xgboost propensity to pay model to predict the likelihood that a customer makes a payment on a given day, improving customer response rate by 20% and resolutions by 10%
 - LSTM delinquency drift forecasting model to identify accounts most likely to deteriorate within the next month, reducing overall portfolio delinquency by 2%
- Data Mining and Automation: Revamped the structure of rebate data using automated pipelines to creatively solve redundancy issues including a user-friendly app for stakeholders to seamlessly update data and reduce time spent on repetitive tasks
- Communication and Impact: Thrived in fast-paced and innovative environments with cross-departmental stakeholders summarizing business updates using effective visualizations and presentations, highlighting excellent communication skills

Researcher-Ph.D.

- Department of Physics, University of Utah, UT

August 2016 - May 2021

- Designed a novel data-driven pipeline that estimates accurate uncertainties for chemical properties in stars utilizing Bayesian techniques like maximum likelihood and kernel density estimation, and machine learning techniques like Naive Bayes classification and k-means clustering¹
- Quantified the variability of light from stars using time series analysis techniques like Lomb-Scargle periodogram and damped random walk model²
- Documented the detailed statistical and modelling techniques utilized in a data-driven research projects across multiple manuscripts^{1,2,3}, highlighting excellent written communication skills

TECHNOLOGY SKILLS	Software Expertise:		Statistical Expertise:	
	<ul style="list-style-type: none">• Python• R• SQL• Git• Snowflake• dbt• PyCharm		<ul style="list-style-type: none">• Machine Learning• Hypothesis Testing• Predictive Modeling• Time Series Analysis• Deep Learning• Bayesian Statistics	
EDUCATION	Ph.D., Physics and Astronomy University of Utah, Salt Lake City, UT <i>Exploring Galactic Chemical Evolution Using Cluster Chemistry and Variability,</i> Bachelor of Science (BS) MS Dual Degree, Major: Physics, Minor: Math Indian Institute of Science Education and Research, Thiruvananthapuram, India			
PUBLICATIONS	¹ Poovelil et al., 2020: ApJ 903 55 ² Wainer, ... , Poovelil, et al., 2023: AJ 166 106 ³ Jönsson, ... , Poovelil, et al., 2020: AJ 160 120			
LANGUAGES	English		Fluent	
	Malayalam		Fluent	
	Hindi		Intermediate	
	French		Learning	
INTERESTS	Soccer, board games, and fixing up old motorcycles			