



Ramin Vafadary

Title: Data Scientist
Location: Los Angeles/ California
Languages: English

Experience Summary

Ramin Vafadary is a highly skilled data scientist with a background in electrical engineering. He is passionate about problem-solving and employs data science techniques to derive actionable insights in any business contexts. He possesses a diverse background in data science, encompassing all stages of the data science project lifecycle. His technical expertise spans a wide range of technologies, demonstrating proficiency in various aspects of data science, from project initiation to completion.

KEY SKILLS:

- **Functional:** Web Scarping, Data Cleaning, ETL pipelines, SQL, and NoSQL databases, Supervised and Unsupervised Machine Learning, NLP, Big Data, Statistical Analysis, Data Visualization, Anomaly Detection, Time Series Analysis, Chatbot, LLMs and Generative AI
- **Technical:** Python, SQL, Tableau, PowerBI , Scala , Spark , HTML , Flask , Plotly Dash , Github , AWS, Azure , JIRA , Linux shell

Experience

01	Type of Industry:	Technology - Chatbot
	Project Description:	Contributed to the development of a Chatbot designed to automate responses to HR-related queries from internal employees.
	Role/Title:	Data Scientist
	Project Duration:	1.5 year
	Responsibilities:	<ul style="list-style-type: none">• Developed a RASA chatbot using python and added new examples of intents, entities, slots, and stories provided by the client.• Tuned the hyperparameters of the NLP and Core models to optimize the performance.• Created a dashboard in PowerBI to monitor the performance of the chatbot.• Developed project test scripts for the chatbot application.
	Software / Languages:	Python, SQL
	Special Tools:	Azure Cloud, PowerBI, Git, Jira, Visual Studio Code

02	Type of Industry	Social Media - Privacy
	Project Description:	Assisted as a data scientist to mitigate privacy risks. Established privacy metrics, created Python-SQL pipelines for data generation, conducted statistical analysis, and designed dashboards for streamlined stakeholder insights.
	Role/Title:	Data Scientist
	Project Duration:	1.5 year
	Responsibilities:	<ul style="list-style-type: none"> • Defined metrics to track different aspects of Privacy. • Created data pipelines using python and SQL to generate the metrics data. • Conducted statistical analysis and developed reports to communicate insights to stakeholders. • Designed and developed dashboards using Unidash (internal dash tool) to visualize and present data to stakeholders.
	Software / Languages:	Python, SQL
	Special Tools:	Mercurial, VS Code, Presto Data base
03	Type of Industry	Social Media - Legal
	Project Description:	Participated in end-to-end development of a machine learning model for anomaly detection.
	Role/Title:	Data Scientist
	Project Duration:	6 Months
	Responsibilities:	<ul style="list-style-type: none"> • Created data pipelines using python and SQL to collect data with more features for machine learning. • Performed feature engineering and feature selection to improve the model performance. • Developed a classification model with highly imbalanced data to detect anomalies and improved model performance metrics.
	Software / Languages:	Python, SQL
	Special Tools:	Mercurial, VS Code, Presto Data base

04	Type of Industry	Higher Education – Boot camp
	Project Description:	Thought data science to undergraduate and graduate students on topics such as python programming, SQL, data wrangling, statistics and probability, data storytelling, machine learning and big data.
	Role/Title:	Data Science Instructor
	Project Duration:	1 year
	Software / Languages:	Python, SQL, Tableau
	Special Tools:	Jupyter Notebook, pgAdmin, Git

Published & Presented / Awards

- R. Vafadary and M. Khanbaghi, "Forecasting 24-Hour Ahead Electricity Load Using Time Series Models," World Academy of Science, International Journal of Energy and Power Engineering, vol. 16, no. 8, 2022.

Higher Education

- M.S. Electrical Engineering – University of Tehran
- Data Science Boot Camp – General Assembly