

Rayan Yassminh, Ph.D.

Data Scientist | Generative AI | Machine Learning | Cloud Analytics

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PROFESSIONAL SUMMARY

Expert Data Scientist with a Ph.D. background and experience delivering machine learning, statistical modeling, predictive analytics, Generative AI, and cloud-enabled data solutions. Skilled in transforming complex structured and unstructured data into actionable insights, scalable models, and decision-support tools. Brings a strong blend of research depth, applied analytics, experimentation, stakeholder communication, and technical leadership across data science, AI, and cloud environments.

CORE SKILLS

Languages: Python, SQL, Shell Scripting

Data Science and AI: Machine Learning, Generative AI, Large Language Models (LLMs), Deep Learning, Natural Language Processing, Predictive Modeling, Forecasting, Classification, Clustering, Anomaly Detection, Statistical Analysis, Experiment Design

Data Engineering and MLOps: ETL Pipelines, Workflow Orchestration, Feature Engineering, Model Evaluation, Model Monitoring, MLflow, CI/CD, Scalable Data Workflows

Cloud: AWS, GCP, Azure, OpenAI, SageMaker, Cloud-Based Analytics, Cloud ML Workflows

Professional Strengths: Technical Communication, Cross-Functional Collaboration, Stakeholder Engagement, Research, Leadership

PROFESSIONAL EXPERIENCE

Senior Statistical Specialist | Alamo Colleges

Texas, USA | Apr 2024 - Present

- Perform advanced statistical and analytical work using Python, SQL, and modern data workflows to support evidence-based decision-making.
- Build and refine predictive and statistical approaches to identify patterns, trends, risks, and outcome drivers in complex datasets.
- Create dashboards and develop predictive models.
- Clean, integrate, and validate data from multiple systems to improve reliability for analytics, modeling, and production reporting workflows.
- Translate technical findings into practical recommendations for stakeholders across business and operational contexts.
- Support research-driven analysis and structured problem solving using experimentation, hypothesis testing, and trend analysis.

Lead | Women in Data, San Antonio Chapter

San Antonio, TX | Mar 2025 - Present

- Lead a professional data community focused on technical growth, leadership, and knowledge sharing.
- Organize events and speaker sessions covering AI, analytics, machine learning, Generative AI, and career development.
- Develop and deliver educational content for audiences with diverse technical backgrounds.
- Strengthen community engagement around applied data science and emerging AI topics.

Data Engineer | Refonte Learning

Remote | Dec 2024 - May 2025

- Worked with modern data engineering and analytics workflows involving SQL, relational databases, NoSQL systems, and distributed processing tools.
- Built and supported ETL and orchestration pipelines in cloud-oriented environments.
- Applied best practices in debugging, documentation, data modeling, workflow reliability, and version control.

- Strengthened scalable data infrastructure skills that support downstream analytics, machine learning, and AI applications.

Data Scientist | Freelance

Remote | Jan 2023 - Apr 2024

- Partnered with clients to define analytical goals, frame business questions, and deliver data science solutions.
- Collected, cleaned, explored, and transformed data for machine learning and advanced analytics use cases.
- Built and refined predictive models and communicated findings in business-friendly language.
- Supported solution delivery through interpretation, iteration, and ongoing post-project guidance.
- Adapted methods across different tools, platforms, and business needs.

Contributing Technical Writer | Freelance

Remote | Jan 2022 - Present

- Create technical content that explains data science, machine learning, AI, and cloud-enabled analytics concepts clearly for broad audiences.
- Research tools, methods, and technical topics to produce accurate, structured, and user-focused content.
- Collaborate with subject matter experts and technical stakeholders to develop high-quality educational and documentation materials.

Data Science Intern | Data Glacier

Remote | Aug 2022 - Dec 2022

- Prepared and transformed data for machine learning workflows and downstream analysis.
- Performed feature engineering and exploratory analysis on large datasets.
- Applied supervised and unsupervised learning methods for classification, clustering, and anomaly detection.
- Contributed to practical machine learning workflows, including production-oriented model usage.

Research Assistant | University of Missouri

Columbia, MO | Jan 2011 - Jan 2021

- Conducted large-scale research and advanced data analysis to identify patterns, relationships, and scientific insights.
- Designed, tested, and evaluated research workflows in collaboration with multidisciplinary teams.
- Published peer-reviewed scientific work and communicated complex findings clearly and rigorously.

Teaching Assistant | University of Missouri

Columbia, MO | Jan 2014 - Jan 2016

- Supported instruction and explained complex technical concepts in clear, structured ways.
- Facilitated discussion, feedback, and communication across different learner needs.

EDUCATION

- Postgraduate Degree, Cloud Computing | Texas McCombs School of Business, University of Texas at Austin | May 26
- Postgraduate Degree, Artificial Intelligence with Deep Learning | Texas McCombs School of Business, University of Texas at Austin | Sep 2023
- Postgraduate Degree, Data Science and Business Analytics | Texas McCombs School of Business, University of Texas at Austin | Sep 2022
- Ph.D., Geophysics | University of Missouri | Dec 2019
- M.Sc., Geophysics | University of Missouri | Dec 2013

CERTIFICATIONS

Generative AI for Business with Microsoft Azure OpenAI; Data Science on Cloud with AWS; Deep Learning and AI Specialization; SQL for Data Science; Python Programming; Data Analyst Learning Pathways; Science Communication; GIS; Radar Remote Sensing