

ALEXIS ROLDAN

Sr. Data Engineer & Data Scientist

Full-Stack Data Scientist & Sr. Data Engineer with 10+ years in biopharma, skilled in Advanced Analytics, AI/ML, and designing scalable End-to-End solutions for data-driven decision-making.



PROFESSIONAL EXPERIENCE

- Current**
|
25-Apr
- Sr. Data Engineer & Data Scientist (Sr. Manager)**
Takeda Pharmaceutical Los Angeles, CA
 - Leading LA Digital Roadmap & AI/ML development with 30+ solutions deployed to production.
 - Designing, building, and maintaining local data pipelines for critical business data.
 - Architected hybrid RAG systems achieving 70% token reduction and 59% deviation reduction.
 - Built agentic BI dashboards and AI-powered text-to-SQL applications for quality management.
- 25-Mar
|
22-Nov
- Data Scientist III (Sr. Manager)**
Takeda Pharmaceutical Los Angeles, CA
 - Drove AGILE 4.0 Digital Workstream, executing local and global GMS/GQ big data and analytics strategy.
 - Performed deep-dive analysis into FrIV1 filtration using advance analytics, reducing cycle time by ~25% (over +\$2.0M/yr savings).
 - Developed scalable End-to-End solutions for commodity transaction monitoring and C3ME JDE work order search, improving efficiency by 75% via text analytics, NLP, and MLOps.
- 22-Nov
|
21-Apr
- Data Scientist II (Manager)**
Takeda Pharmaceutical Los Angeles, CA
 - Achieved ~50% reduction in process variation via digital twin models (PIMS project).
 - Developed scalable end-to-end solutions using text analytics and MLOps, improving deviation search and analytics by 80% and integrating NLP for risk recommendations.
 - Los Angeles lead data scientist for global initiative to migrate data sources to cloud services and develop Dimensional Data Models for all GMS/GQ sites.

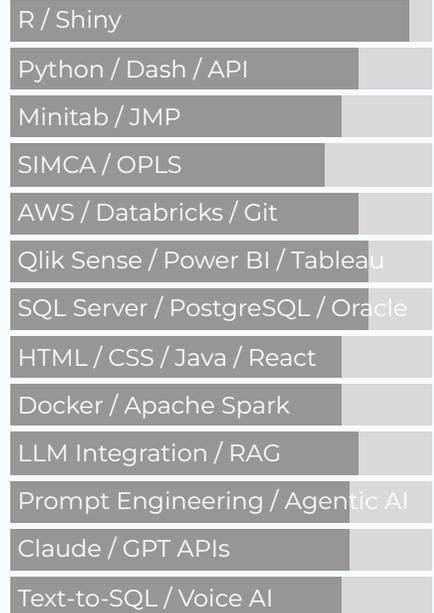
EDUCATION

- 2025
- Optimizing Performance in Shiny**
ShinyConf 2025 Virtual
- 2023
- Oxford ML Summer School**
AI for Global Goals Oxford, UK
- 2021
- Data Science Professional**
Harvard Cambridge, MA
- 2020
- Statistical Learning, Inference & Modeling**
HarvardX / Stanford Online Online
- 2010
- Computer Science**
Cal State Northridge Northridge, CA

CONTACT INFO

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TECHNICAL SKILLS



SOFT SKILLS

- Lean Six Sigma Green Belt
- Project Management
- SCRUM / Agile / MLOps
- DMAIC / DIDOV2
- Problem Solving / Critical Thinking
- Storytelling / Communication