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Top Skills

Scikit-Learn
PyTorch
Analytics

Languages

English (Native or Bilingual)
SQL (Professional Working)
Python (Professional Working)
R (Limited Working)

Certifications

Tableau 9 For Data Science: REAL-Life Data Science
Beginners Crystal Reports 2013 & 2011
RAG for Cybersecurity: Use Cases and Implementation
Network +
Advanced Crystal Reports 2011 Training Video

Publications

Mitigating Fraud Risk: CyberAnalytic Surveillance of High-Value Assets
The Emerging Threat: AI-Powered Cybersecurity Risks to Medical Equipment
Being a Database Administrator
False Positive Reduction in Credit Card Fraud Prediction: An Evaluation of Machine Learning Methodology on Imbalanced Data
Machine Learning for the HTM Professional

Benjamin Larson PhD

Data Science | Leading AI/ML Initiatives | AI Researcher | Analytics | Business Intelligence | Agentic AI
Neshanic Station, New Jersey, United States

Summary

As a Senior Manager and Principal Data Scientist at Verizon, I lead advanced AI and machine learning initiatives within the Cyber Information Security organization. My work focuses on fraud detection, anomaly detection, and risk scoring, enabling the organization to enhance threat intelligence and automated decision-making. I also architect and manage enterprise data platforms, leveraging tools like Teradata and Oracle to support real-time analytics pipelines.

With many years of leadership at Verizon, I have consistently overseen and delivered data science / AI initiatives, including optimization programming, NLP, ML, GenAI, and Agentic AI. My expertise in automation drives operational efficiency while mentoring data scientists and analysts to establish high modeling standards. Passionate about sharing knowledge, I also serve as a Ph.D. Chair at Capitol Technology University and as an Adjunct Professor at multiple institutions, fostering the next generation of data professionals.

Experience

Verizon

8 years 8 months

Sr Manager Data Science - Cyber Security Risk Management
November 2020 - February 2026 (5 years 4 months)
New York City Metropolitan Area

- Established and implemented an AI-driven candidate intelligence platform across vendor partners, strengthening insider-risk controls and reducing unsuccessful hires by 92%.
- Transformed SIM-swap fraud controls by implementing an ML-based geospatial risk engine, reducing fraudulent SIM swaps by 72% through the use of a custom Python ML model.

- Transformed operational efficiency by delivering automation that eliminated 8,000+ hours of manual effort with the use of tools such as UiPath, Automation Anywhere, Python, Tableau, and Alteryx
- Established modeling standards, feature pipelines, reproducible research practices, and MLOps frameworks.
- Partnered with CIO, CISO, and risk executives to shape enterprise AI strategy, including decisions on model use cases, data architecture, tooling, governance, and technology investment prioritization.
- Directed enterprise AI/ML programs for fraud, anomaly detection, and automated cyber-risk decisioning.
- Worked across diverse data platforms: SQL Server, Teradata, Oracle, GCP, Snowflake utilizing current technologies such as Python, Alteryx, Knime, LangChain, Gemini API, MCP, RAG

Manager of Data Science Marketing Risk and Compliance

February 2018 - November 2020 (2 years 10 months)

Greater New York City Area

Led data science team developing end-to-end analytics solutions for Consumer group risk monitoring across Marketing/Product, Regulatory, and Strategy functions. Delivered significant cost savings by identifying non-compliant promotions, detecting system errors, preventing regulatory violations, and creating executive dashboards for senior leadership reporting.

Oversaw and aligned leadership and stakeholder priorities with development efforts for solutions requiring data science

Partnered with end users and data science community members to identify, grow and expand opportunities for data and analytics

Identified and fostered professional opportunities for team members driving skill development and demonstrations

Analyzed customer journey and campaign performance with focus on risk and compliance.

Skills: GA4 | Google Tag Manager | Web Analytics | Adobe Analytics

Data Architect / Machine Learning Developer

July 2017 - February 2018 (8 months)

Basking Ridge, NJ

- Delivered enterprise data architecture solutions for the FP&A Pricing Department
- Developed predictive models used for event ticket utilization and customer classification.

- Migrated and stabilized BI platforms, improving system performance and reliability.

Southern New Hampshire University
Adjunct Professor
December 2023 - January 2026 (2 years 2 months)
New Hampshire, United States

I am an Adjunct Professor for SNHU's Master of Data Analytics program.

Capitol Technology University
Ph.D. Chair
June 2023 - January 2026 (2 years 8 months)
Laurel, Maryland, United States

Help guide Ph.D. students through the process of completing the requirement for earning their doctorate. I assist in research, finding the best suited methodologies and ensuring all academic and institutional requirement are met.

Raritan Valley Community College
Adjunct Professor
August 2022 - January 2026 (3 years 6 months)
New Jersey, United States

Adjunct faculty teaching Database Development and Design and Intro to Java

Udacity
Instructor
June 2020 - November 2020 (6 months)

Currently developing a foundations of data architecture course for Udacity's upcoming Data Architect NanoDegree program

Atlantic Health System
17 years
Systems Analyst 4: Data Scientist
April 2017 - July 2017 (4 months)
Morristown, NJ

- Provide management decision support
- Utilize machine learning algorithms in Python and R to develop predictive models
- Utilize industry standard software such as Tableau, Qlik, PowerBI, and Crystal reports.

- Provide ad hoc reporting support for both clinical and operations management
- Perform statistical analysis on both clinical and operations data
- Perform data mining for both clinical and support departments

Biomedical Informatics Specialist

September 2005 - March 2017 (11 years 7 months)

Develop predictive analytics models to help drive business and clinical decisions.

Developed and maintain an operations dashboard solution utilizing Qlik Sense.

Develop and track new KPI's for Clinical Engineering Department.

Install, configure, and administer clinical databases for a large healthcare system in Northern New Jersey.

Provide data analysis for use in clinical and business decision making.

Assure integrity of clinical data that is used for diagnosis and treatment.

Support multi-vendor interfaces that allow for the transmission of clinical data to EMR and billing systems.

Supported implementation of McKesson EMR systems, providing integration with clinical engineering systems to automate data transfers.

Function as a liaison between Bio-Medical Engineering and IT. Build and maintain networks that communicate between patient care equipment and hospital backbone

Biomedical Equipment Technician

August 2000 - September 2005 (5 years 2 months)

Maintained, troubleshoot, and repaired various medical devices

Worked with physicians and clinical staff in high pressure areas such as operating rooms and emergency rooms

Provided training to clinical staff

Installed a hospital wide telemetry patient monitoring system

US Army
Bio Med Tech

April 1994 - April 2002 (8 years 1 month)

Learned to operate in inhospitable environments

Learned to work with peoples from diverse cultures, regardless of language barriers

Worked as biomedical equipment technician in both hospital and field environments

Education

Capitol Technology University

Doctor of Philosophy - PhD, Data Science and Decision Sciences · (2017 - 2020)

Master of Science in Analytics (MSA), Analytics · (2015 - 2017)

University of Phoenix

Bachelor of Science (BS), Information Technology/ Information Management · (2013 - 2015)

United States Army Medical Equipment and Optical School (USAMEOS)

Biomedical Equipment Technician, Electrical and Electronics Engineering · (1995 - 1995)