



JULIE VON NEUMANN

Data Science & Analytics Professional

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PROFESSIONAL SKILLS

Development Environments:

- Jupyter Notebook
- Google Colab
- Apache Zeppelin
- EMR Studio
- VS Code
- PyCharm
- Spyder

Big Data & Cloud Platforms:

- Hadoop
- Hive
- Spark
- Databricks
- AWS
- Azure
- GCP

Languages & Scripts:

- Python
- pySpark
- SQL
- SAS
- Spark RDD API
- jQuery
- HTML/CSS

Tools & Applications:

- SAS Enterprise Guide
- Tableau
- Looker
- Docker
- GitLab
- GitHub
- BigQuery



EDUCATION

Master of Science - Applied Statistics 2012-2014
New Jersey Institute of Technology

Bachelor of Science - Mathematical Science 2004-2008
New Jersey Institute of Technology



WORK EXPERIENCE

Weisheit Holdings 07/24- Present
Data Science Manager

Oversees analytical and quantitative risk assessment for private trust portfolios, supporting fiduciary decision-making, capital preservation, and long-term investment strategy. Develops advanced analytical frameworks to evaluate portfolio risk exposure, asset performance, and capital allocation across diversified financial instruments. Applies statistical modeling, distributed data processing, and machine learning techniques to identify emerging risk patterns, monitor portfolio stability, and improve transparency of investment performance. Builds scalable data infrastructure using Python, Spark, and PySpark to enable efficient analysis of large-scale financial data. Provides analytical insight that strengthens governance, enhances risk visibility, and supports disciplined portfolio management in a fiduciary trust environment.

CVS Health (Aetna) 01/23 - 10/23
Senior Data Scientist

Developed advanced analytical and machine learning models supporting behavioral health and suicide prevention initiatives, focusing on early identification of high-risk individuals within younger populations. Integrated healthcare claims data, third-party behavioral interaction data, and clinical notes to construct risk scoring models and patient risk profiles. Applied natural language processing and predictive analytics to identify patterns associated with depression, bipolar disorder, and suicide risk, enabling earlier intervention and improving the effectiveness of preventative care strategies. Work also evaluated the clinical and financial impact of behavioral health conditions, supporting data-driven decision-making and resource allocation within population health management programs.

Cohere Health 04/22 - 08/22
Principal Data Scientist

Directed machine learning and analytics initiatives supporting an automated prior authorization platform designed to improve clinical decision efficiency and reduce administrative burden. Led a team of data scientists in analyzing large-scale authorization and clinical datasets using Spark and PySpark to identify model deficiencies, improve decision accuracy, and enhance system reliability. Applied advanced statistical methods and natural language processing to optimize model inputs, reduce false flags, and improve automation rates. Oversaw analytical strategy, model evaluation, and performance monitoring to ensure scalable, production-ready solutions within a high-volume healthcare environment.

General Dynamics Information Technology — CMS Fraud Prevention System 11/20-04/22
Senior Data Scientist

Contributed to the design, development, and enhancement of advanced statistical and machine learning models supporting the Centers for Medicare & Medicaid Services (CMS) Fraud Prevention System, a national platform responsible for identifying fraud, waste, and abuse across Medicare and Medicaid programs. Developed predictive and anomaly detection frameworks capable of analyzing large-scale, highly imbalanced healthcare claims data to identify suspicious billing behavior and emerging fraud patterns. Work supported both pre-payment intervention models and post-payment investigative analytics, strengthening program integrity and enabling data-driven enforcement actions within CMS's Center for Program Integrity.

Optum (United Health Group) 05/19-05/20
Senior Healthcare Economics and Outcomes Research Consultant

Horizon Blue Cross Blue Shield 05/13-05/19
Senior Data Analyst