

# BEN SPANSWICK

ben.spanswick@gmail.com · 717.891.5297

## ABOUT

---

Visionary data and analytics leader with over 14 years of experience driving strategic transformation within Fortune 500 companies. Adept at building high-performing organizations that integrate data science, machine learning, and advanced analytics into core business functions to unlock enterprise value. Proven ability to lead multimillion-dollar programs, drive contractor engagements, and align analytics strategy with corporate objectives for measurable impact.

## EDUCATION

---

**Pennsylvania State University**  
BS Risk Analytics

**Southern Methodist University**  
MS Data Science

## EXPERIENCE

---

### **PPL Corporation**

*Director, Data Science and Machine Learning*

Allentown, PA  
August 2022 - Present

- Spearheaded a cloud-first data strategy, reducing technical debt and modernizing the enterprise analytics stack across PPL's three operating companies.
- Led the transformation of analytics capabilities as part of a multi-billion-dollar, five-year corporate reinvention, aligning AI-driven insights with business priorities.
- Oversee a \$7M budget while reporting directly to the COO, ensuring optimal allocation of analytics investments for maximum business impact.
- Implemented a best-in-class, multi-cloud analytics infrastructure, integrating Azure and AWS for scalable AI/ML workloads and enterprise-wide data governance.
- Led the introduction and rollout of various enterprise AI and analytics SaaS solutions, including Copilot, Palantir, and others, enabling scalable decision intelligence across the enterprise.
- Established a governance framework balancing innovation with execution, ensuring scalable deployment of AI/ML solutions while maintaining business value.
- Orchestrated the strategic deployment of \$250M+ in capital investments using predictive analytics and optimization models to drive operational efficiency.
- Delivered \$21M in annual O&M savings in 2024, with projected savings of \$27M in 2025 and a five-year forecasted reduction of \$150M in operational costs.
- Championed data-driven decision-making to improve infrastructure investments, achieving an 18% increase in reliability for vegetation management and an 85% reduction in high-voltage tree-related outages.

### **PPL Corporation**

*Senior Manager, Data Science and Analytics*

Allentown, PA  
April 2019 - August 2022

- Designed and executed a cloud-first analytics transformation roadmap, transitioning PPL from legacy on-prem solutions to a scalable, multi-cloud AI/ML ecosystem.
- Led a multi-functional team in developing predictive models for event prediction, asset optimization, and customer behavior forecasting, delivering multi-million-dollar cost efficiencies.
- Built and implemented a robust MLOps framework to enable scalable, rapid deployment of AI solutions, reducing time to market for models by over 40%.
- Reduced technical debt by consolidating disparate analytics platforms into a unified, cloud-native infrastructure, enhancing scalability and efficiency.
- Created and implemented a data governance and operational strategy that accelerated AI adoption and analytics maturity across business units.
- Established PPL's Data Science Center of Excellence, standardizing best practices for AI/ML development and embedding data-driven decision-making across the enterprise.

**Novetta/Accenture: Federal Bureau of Investigation**  
*Managing Data Scientist*

Washington, DC  
January 2015 - April 2019

- Built and led a team of 11 highly cleared data scientists, pioneering cloud-first AI analytics strategies in national security investigations.
- Developed and deployed scalable data pipelines and machine learning models on cloud-based infrastructure to support real-time intelligence operations.
- Ensured compliance with aggressive data security and governance standards in a highly classified environment, maintaining operational integrity and national security.
- Increased investigative efficiency by 32% through the adoption of AI-driven analytics, enabling a 70% increase in FISA warrant approvals and a 25% expansion in operational exercises.
- Briefed senior leadership, including DNI Clapper, NSA McMaster, and FBI Director Wray, on AI-driven insights and data strategies that enhanced national security.

**SRA/General Dynamics: Immigration and Customs Enforcement**  
*Supervisory Intelligence Analyst*

Washington, DC  
September 2012 - January 2015

- Built and led a 20-person intelligence analytics team, integrating advanced analytics into counterterrorism operations.
- Developed data-driven methodologies for rapid target subsetting and operational intelligence profiling, increasing efficiency and analytical rigor across multiple investigative units.

**SRA/General Dynamics: Federal Emergency Management Agency**  
*Risk Analyst*

Washington, DC  
June 2010 - September 2012

- Conducted supply chain vulnerability analysis for critical medical supplies, ensuring national preparedness during crisis scenarios.

SKILLS

---

Strategic Leadership:	Cloud-First Strategy, Analytics Transformation, Governance, Org Design
Business Strategy:	Change Management, KPI Development, Benchmarking, Investment Allocation
Analytics Expertise:	AI/ML, Predictive Modeling, Forecasting, Optimization, Graph Analytics
Data Stack:	Azure Stack, AWS Stack, Snowflake, Databricks, Palantir, Twilio, Copilot (Studio, Foundry), Python, R, SQL, Terraform

INDUSTRY ENGAGEMENTS

---

**Guest Lecturer:** Lehigh University, Temple University  
**Chair:** AEIC Data Analytics Council  
**Speaking Engagements:** UAI, AEIC, Distributech, Utility Fortnightly, Edison Congress

PUBLICATIONS

---

**Forecasting Power Consumption in Pennsylvania During the COVID-19 Pandemic: A SARIMAX Model with External COVID-19 and Unemployment Features**  
SMU Data Science Review

**A Universal Approach To Image Tagging and Recognition for the Electric Utility Industry**  
Association of Edison Illuminating Companies

AWARDS AND CERTIFICATION

---

**Top Secret SCI Q Clearance (dormant)**  
Granted one of the highest security clearances possible for work supporting FBI

**ODNI Meritorious Unit Citation**  
The National Intelligence Meritorious Unit Citation recognizes single acts of meritorious service performed by an Intelligence Community team.

**Microsoft Azure Data Fundamentals**  
certifying understanding of various Azure services and cloud infrastructure.

**Security+**  
Certification that validates the baseline skills necessary to perform core security functions and pursue an IT security career.