**Adam Erler, Data Scientist**

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Summary

Data scientist with a wealth of professional experience applying artificial intelligence in education and technology. A constant and continuous lifelong learner with a drive to fully understand and comprehend the issues presented to me. Avid dog lover and 3D printing nerd.

Experience

**Education Strategy Consulting**  Remote

Data Analyst 06/2023 - Present

* Managed and optimized the entire ELT cycle for the education data in 5 states across multiple sources, enhancing data accuracy and usability to meet stringent client requirements for advanced visualization and analytical research
* Developed an automated API interface for programmatic Google searches, achieving an 80% reduction in workflow time for related tasks
* Identified inefficiencies in the data analysis process and redesigned workflows, significantly enhancing efficiency and consistency across multiple data sources
* Ensured optimal database functionality and performance on AWS S3 servers

**GLAN** Remote

Data Scientist, Contract 04/23 - Present

* Collaborated with the research team to develop an algorithm that identifies connections between companies and human rights violations, slashing research time by 99%
* Developed a full-stack web application using Flask, integrating front-end and back-end components to deliver a seamless user experience
* Implemented API integrations with large language models (LLMs) to enhance data extrapolation and uncover deeper business insights
* Developed a cross-document referencing tool using TF-IDF NLP techniques to improve information retrieval and document analysis efficiency

**Concept Schools** Chicago, IL

Teacher, Data Analyst 08/2019 - 06/2023

* Taught a diverse curriculum including Dual Credit Pre-calculus, AP Physics, Computer Science Principles, Web Design, and Unity-Based Game Design
* Authored two grants, securing over $100,000 in funding for Project Lead The Way (PLTW) and Game Design classes
* Implemented data-driven strategies that improved student performance on state tests by at least 5%.
* Provided daily mentorship to new staff, facilitating the achievement of their professional goals
* Developed a comprehensive four-year computer science program offering multiple pathways for students to pursue careers in technology and science, resulting in certifications in Unity 3D, Google, and PLTW

**Sonam Technologies**  Crown Point, IN

Data Analyst, Contract 05/2015 - 07/2018

* Developed a cloud SQL database to collect and manage data from live products, enhancing real-time data accessibility and analysis
* Developed regression models using customer data to predict and identify normal playground degradation, enhancing maintenance strategies and product lifespan

**Hammond Academy of Science and Technology** Hammond, IN

Teacher 06/2014 - 07/2019

* Taught a diverse array of subjects including Algebra 1, Geometry, Web Design, and Computer Science Principles
* Developed a math remediation program that propelled the school to achieve the second-highest growth score in Indiana's 2018 10th grade math ISTEP
* Collaborated with local business partners to secure over $30,000 in donations for new computer science equipment, significantly enhancing the program's resources.

Outreach

**QuarkNet** Hammond, IN

Lead Teacher 06/2014 - 08/2023

* Orchestrated international workshops that connected high schools worldwide with live data from the Large Hadron Collider, fostering global educational collaborations
* Collaborated with Fermilab's Silicon Detector Laboratory to identify and address production errors in readout chips for the Forward Pixel Detector at CMS

Education

**Bellevue University** Bellevue, NE

Master of Science, Data Science 12/2023

**Purdue University** Hammond, IN

Master of Science, Mathematics 05/2019

**Southern Illinois University** Carbondale, IL

Bachelors of Science, Mathematics 05/2014

Skills & Interests [Optional]

Programming Languages: Python, JavaScript, R, MATLAB, SQL, HTML/CSS

Supervised Learning Techniques: Linear and Logistic Regressions, Decision Trees, Support Vector Machines (SVM)

Unsupervised Learning Techniques: K-Means Clustering, Principal Component Analysis (PCA)

Data Visualization Tools: Excel, Google Sheets, Seaborn, Matplotlib, Power BI, LaTeX

Human Skills: Effective Communication, Problem-Solving, Team Collaboration, Adaptability, Critical Thinking, Attention to Detail, Project Management, Curiosity and Learning, Ethical Judgment and Integrity