

ELIZABETH BADER

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PROFESSIONAL SUMMARY

I'm an educator & data scientist with a strong foundation in pedagogy, learning analytics, and applied machine learning. I am experienced in teaching, data visualization, and statistical modeling, with a passion for using data to personalize learning, optimize instruction, and improve educational outcomes. As I hold a Master's degree in Theology and extensive experience in Catholic education and formation, I combine analytical rigor with a human, faith-informed perspective. I'm interested in developing ethical, human-centered AI that respects human dignity and fosters intellectual and spiritual flourishing. I am skilled at interpreting student performance data and adept at integrating the Catholic intellectual tradition into modern learning environments.

SKILLS

Data Science & Programming: Python • SQL • PostgreSQL • Data Cleaning • Data Visualization • Data Analysis • Machine Learning (ML) • Large Language Models (LLM) • Natural Language Processing (NLP) • Multivariate Statistical Analysis • Data Science Lifecycle • Google Colab

Technical Tools: Microsoft Suite • Google Suite • Zoom • Microsoft Teams • OneDrive

Education & Communication: Lesson Planning • Classroom Management • Teaching • Collaboration • Communication • Organization • Goal-driven

Faith & Formation: Catholic Theology • Spiritual Direction • Religious Formation • Ignatian Spirituality • Persistent Prayer Life

EDUCATION

Boston College — M.S. Data Science

Anticipated Graduation: August 2026

Augustine Institute Graduate School of Theology — M.A. Theology

Graduated July 2024

Cenacle of Our Lady of Divine Providence School of Spiritual Direction — Certification in Spiritual Direction

Graduated January 2022

Benedictine College — B.A. Elementary Education

Graduated May 2015

Religious Formation – School Sisters of Christ the King, Villa Regina Motherhouse

Extensive theological, philosophical, and spiritual formation (2009–2022). Completed two 30-day Ignatian retreats, annual 8-day retreats, and ongoing study of Catholic spirituality.

University of Nebraska–Lincoln — Coursework toward B.A. in Middle School Education

2006–2009 — Left to enter religious life.

WORK EXPERIENCE

St. Robert Bellarmine School, Omaha, NE — 5th/6th Grade Math & Reading Teacher

August 2022 – Present

- Design and implement curriculum integrating Catholic worldview with academic rigor.
- Analyze student performance data to personalize instruction and improve outcomes.
- Promote respect and virtue in classroom community through consistent Catholic formation.

St. Teresa School, Lincoln, NE — 2nd Grade Teacher

August 2020 – January 2021

- Planned and taught all subjects with emphasis on moral and intellectual growth.
- Collaborated with faculty and parents to ensure holistic student development.

St. James School, St. Joseph, MO — Religion Teacher

August 2018 – May 2020

- Taught religion classes for grades K–8, including sacramental preparation.
- Coordinated liturgical and faith events for students and families.
- Inspired students to deepen their relationship with Christ through learning and prayer.

St. Joseph School, Lincoln, NE — 2nd Grade Teacher

August 2015 – May 2018

- Taught all subjects, emphasizing Catholic identity and student-centered instruction.
- Implemented classroom management rooted in respect for the person and Catholic virtue.
- Built strong parent–teacher partnerships to foster faith and academic growth.

DATA SCIENCE PROJECTS

- **Education Data Dashboard:** Built Python-based dashboard to visualize student performance metrics for Catholic schools. <https://amatus-dataset.streamlit.app/>
- **Question-Answer App:** Built an app to search the Catechism of the Catholic using NLP Techniques: SentenceTransformer, FAISS, BM25, and CrossEncoder. <https://catechismquestion.streamlit.app/>