

# Ashley Mersman

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## Data Scientist

12 years of experience with data analytics as an Analytical Chemist (Senior Technologist) with Corbion. I am a Master's of Science in Data Analytics student at Northwest Missouri State University. I have increased productivity by 30%, reduced lab turnaround time by 20%, managed data analysis and method validation for \$15 million dollar product innovation, created and managed databases; produced monthly reports for customers.

### SKILLS

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Data Analysis, Python (Programming Language), Communication, Analytical Skills, Data Science, Presentation Skills, Linear Regression, Data Analytics, Machine Learning, Seaborn, SQL, Collaborative Problem Solving, Git, Data Visualization, Tableau

### WORK EXPERIENCE

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**Corbion** • Feb 2011 - Present

#### Analytical Chemist (Senior Technologist)

- Managed data analysis and method validation for \$15 million dollar product innovation
  - Performed data visualizations to profile thermodynamics of chemical reaction for product development
  - Used hypothesis testing to compare analytical release methodology between 3 labs (customer and pilot production laboratories)
  - Managed training for pilot production lab and production facilities analytics
  - Validated release testing methodology using descriptive statistics
  - Project planning and business report creation
- Directly support and advise \$15 million/year business segment
  - Performed hypothesis testing for lab comparison testing
  - Computed data analysis of customer samples within Jupiter Notebooks using python and statistical libraries
  - Utilized linear regression models for the quantification of chemical analyses
  - Identified process improvements resulting in a 20% reduction in lab turnaround time, leading to improved customer satisfaction.
  - Established six sigma based statistical process control systems for laboratory analysis
  - Identified process improvements resulting in a 20% reduction in lab turnaround time, leading to improved customer satisfaction.
  - Used SQL to build databases and queries for sample tracking and spending
- Created dashboards for lab resource allocation and spending
- Leveraged historical data to forecast future lab workload to assist in proper resource management
- Achieved a 30% increase in productivity by redesigning the analytical reporting process
- Assisted with development and validation of predictive modeling of acidulants dependent on buffering capacity
- Collaborates with stakeholders, identifying and gathering analytical requirements for customer, product and project needs
- Managed million dollar lab renovation; planned budget, coordinated with external contractors, managed customer expectations, established timelines

### EDUCATION

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#### Master of Science - MS in Data Analytics

Northwest Missouri State University • Jan 2023 - Dec 2023

#### Bachelor of Science - BS in Chemistry

University of Missouri-Kansas City • Aug 2006 - Dec 2010