

Kaustubh Mathur

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EDUCATION

University of Cincinnati

Bachelor of Science, Computer Science, Minor in Business Administration

Aug 2022 - May 2027

GPA: 3.6/4.0

- Dean's List – Spring 2025, Summer 2024, Fall 2023, Spring 2023
- Honors and Awards: CEAS International Outreach Scholar, National Co-op Ambassador

SKILLS

Programming & Database: Python, SQL, HTML, JSON, VBA, MATLAB, Teradata

Data Visualization & Automation: Power BI, Tableau, Excel, Power Apps, Power Automate

EXPERIENCE

Delta Air Lines, Inc.

Atlanta, GA

Operational Business Analyst Co-op, ACS Field Support

Aug 2024 – Present

- **Automated bid shell creation** using **Python**, reducing processing time from 8–9 minutes to 5–10 seconds and increasing team productivity by over **90%**, freeing resources for higher-value tasks
- Developed an **automated SAS process** that generates weekly reports integrated into a semantic model, providing precise headcount and attrition trends by station; this enabled data-driven staffing targets and contributed to estimated savings of up to **\$2.3 million per month**
- Integrated AWS databases with Python and **Power BI** to streamline data pipelines, reducing manual processing time by approximately **70%** across operational teams
- Designed a **post-bid analysis dashboard** in Power BI that provides senior leaders with **real-time visibility** into staffing and operational metrics

University of Cincinnati

Cincinnati, OH

Undergraduate Research Assistant, Engineering & Computing Education

Jan 2024 – Aug 2024

- Collaborated with a team of 9 researchers and mentors to standardize Plans of Study (POS) for engineering curriculum across the US
- **Optimized** data integrity processes by building Python-based validation tools, reducing manual entry errors by 60% and improving integration speed for 1,000+ records
- **Co-authored research articles** to share findings and data collection methods

University of Cincinnati

Cincinnati, OH

Teaching Assistant, Engineering & Computing Education

Aug 2023 – Aug 2024

- Assisted professor in teaching and supervising students for **Foundations of Engineering Design Thinking** course
- Tutored **72 students** and managed communications between students and professors for project-related queries
- Led onboarding and training for 10 new TAs, including safety protocols and quality checks, ensuring compliance with university standards and consistency across all lab sections

PROJECTS

Risk Escalation Assessment Tool, Delta Air Lines, Inc. | Excel

Aug 2025

- Spearheaded the development of a risk assessment tool that identified operational inefficiencies and financial gaps, generating **\$19.1M in Q3 cost savings** and driving executive decision-making
- Built complex models analyzing workforce utilization, financial coverage, and resource allocation, producing deep operational insights that unlocked cost optimization opportunities
- Designed and implemented an interactive dashboard for scenario planning and performance benchmarking, enabling leadership to make real-time, data-driven decisions with confidence

Neural Interface Analytics | Python, SQLite

Dec 2024

- Developed data-driven models to predict device performance metrics from neural interface data, supporting product development decisions
- Delivered executive-ready reports on model performance and recommendations for improving medical device functionality