

The Data Mine

Purdue University®



2024 INDY REPORT

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MEET THE STAFF



Maggie Betz

*Managing Director of
The Data Mine in Indianapolis*

I recently celebrated my 5-year work anniversary with Purdue and 1-year at Purdue in Indianapolis. I've been honored to build out not one, but two locations of The Data Mine. It's been a rewarding journey to see the impact The Data Mine has on students' experiences at Purdue and in their careers beyond.



betz@purdue.edu

Bryce Castle

*Corporate Partners
Technical Specialist*

I recently graduated from Purdue, and joined the team in Indianapolis over the summer to help support corporate partnerships. I love working with the students and providing our TAs with both technical & project management support. I hope to give back to a program that taught me for 4 years.



castle5@purdue.edu

BY THE NUMBERS

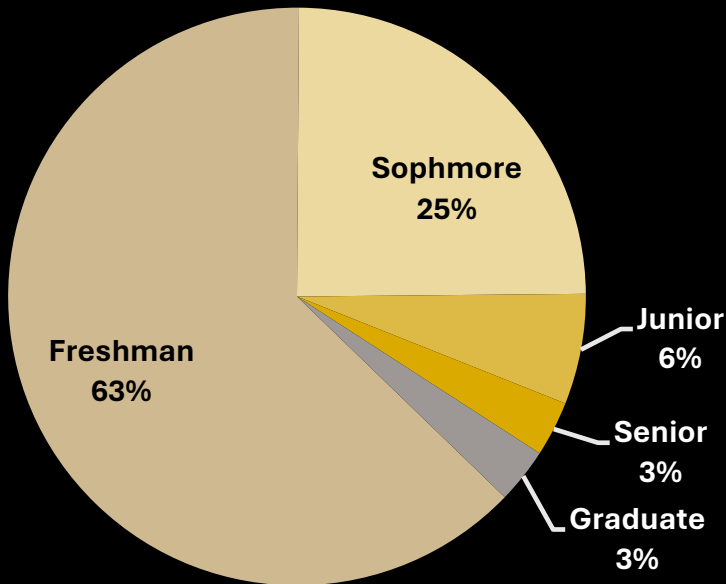
107

STUDENTS IN CORPORATE PARTNERS

134

STUDENTS IN OUR DATA SCIENCE SEMINARS

CLASSIFICATION



MAJORS

Computer Science	63.8%
Artificial Intelligence	18.1%
Engineering	06.4%
Data Science	05.3%
Cybersecurity	04.3%
Computer & Information Tech	02.1%

8.6/10

AVERAGE SATISFACTION WITH
THE CORPORATE PARTNERS PROGRAM

98%

REPORTED THEY ARE VERY LIKELY OR LIKELY
TO RECOMMEND CORPORATE PARTNERS



Allison Transmission
Casting Porosity



Allison Transmission
Vehicle Clustering



Allison Transmission
Warranty Correlation



Corteva
Patents LLM



Corteva
Labels LLM



Cummins
Trip Qualification



Delta Faucet
Warranty Correlation



Elevance Health
Fraud Detection



Elevance Health
Security Programs



Indiana Fever
Player Archotyping



Indiana Soybean Alliance
Web Resources



V2X
Maintenance ChatBot

TEACHING ASSISTANTS



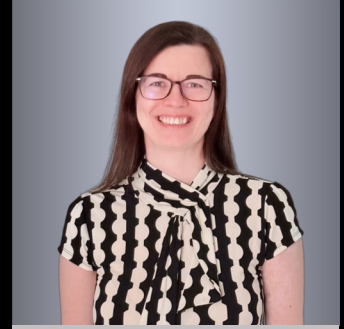
Edwin Sanchez



Ihenna Anoliefo



Reva Pettigrew



Anna Bajszczak



Sarah O'Farril



Eni Owolabi



Kelci Malloy



Sameeksha Desai



Raja Ali



Sevinch Pasilova



Lina Im



Bozidar Perovic

Teaching Assistants act as project managers for their corporate partner team, coordinating tasks and ensuring the team adheres to deadlines and Agile methodology. They provide support and guidance, helping to clarify concepts and troubleshoot issues. TAs facilitate communication between students, mentors, and staff; accelerating the learning experience.

FACULTY ADVISORS

Faculty advisors provide guidance and support, assisting students with the brainstorming and technical development process. With their industry experience and specialized expertise, they facilitate the integration of knowledge with practical application, enhancing the learning experience.



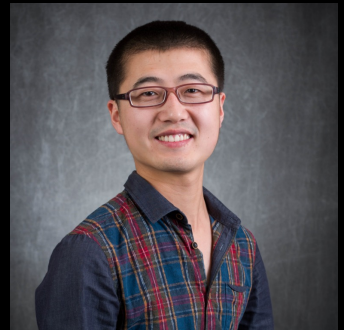
Feng Li



Jacqui Kane



Mustafa Abdallah



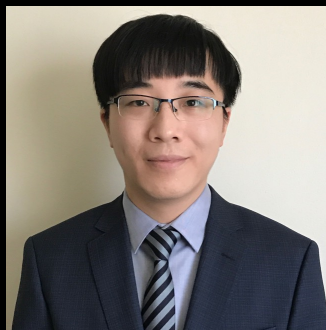
Tao Li



Clay Hampton



Shamima Mithun



Shu Hu

	MON	TUE	WED	THR	FRI
An average week in The Data Mine	Seminar classes	50-min “LEC” meeting with company mentors	Assignments: Sprint Report / Professional Development due weekly	110-min “LAB” with peers and advisors	Staff & TA office hours

THE SPACE (BEFORE + AFTER)

During the summer of 2024, the former Dean's suite was transformed from an office for few to (three) classrooms for many.



“The suite feels like a very **professional environment** rather than a university classroom.

“There is nothing that says more "Purdue Data Mine" than the suite, the classrooms are comfortable and ideal for the work that is done.



“I like the suite because it makes TDM feel like an **exclusive club** (though it's not exclusive, which is a good thing). I feel like I'm part of a cool section of the building exclusively for TDM activities, which I like. It's very cozy, and I like the furniture.

“The space is designed in a way that **fosters collaboration** and productivity. The classrooms are excellent, **well-equipped** with everything we needed for successful learning. Having the right technology made it easy to follow along, collaborate, and stay engaged throughout the session.



EVENTS THIS SEMESTER

AUG 26: Meet The Data Mine @ LUX

Collaboration with University Residences to bring Food, Games & Ping Pong to LUX on Capitol



SEP 11: Meet RollTack Ventures

Students learn from entrepreneurs Tyler Mantel & Sarah Lerner-Mantel



SEP 20: Women In Tech Week

A deconstructed panel, featuring women from a variety of industries



OCT 02: Meet Josie Fasoldt

Director of Data and AnalytiXIN for the Central Indiana Corporate Partnership



OCT 17: Farm Visit

Students on the Indiana Soybean Alliance project see a farm in action





NOV 06: Meet Corteva Scientists

Sam Zukowski & Jacob Hostert
speak on their professional journey



NOV 14: Delta Faucet Visit

Students on the Delta Faucet project
visit their showroom and HQ

NOV 21: Elevance Health Visit

Students on both Elevance Health
projects visit their downtown Indy HQ



DEC 04: Fun, Focus, Food & Festivities

Collaboration with University
Residences to provide a space for
students to prepare for their finals



STUDENTS DESCRIBE US AS...

[illegible]

What are students saying about the impact The Data Mine had on:



Sense of belonging



Career aspirations



Skill growth

BELONGING

Students felt that being involved in The Data Mine increased their sense of belonging on campus. They appreciated the collaborative environment and the opportunity to connect with like-minded peers. The program helped them feel more integrated into the campus community.

“Being part of The Data Mine has made a **big difference in how connected I feel on campus**. It has introduced me to a group of people who share my interest in data and enjoy working together to solve problems. Through the projects we work on and the guidance we receive from mentors, I’ve learned a lot and gained confidence in my skills. Beyond the learning experience, it’s about feeling supported, included, and part of a community that appreciates my contributions. This experience has **helped me feel like I truly belong here**.”

“As a graduate student, my studies are often focused on a few subjects with limited interaction time, which can make it harder to feel connected to campus. **Being part of The Data Mine changed that for me**. Working collectively on the project with my team provided a sense of community and collaboration that made me feel more connected to campus.”

CAREER ASPIRATIONS

The Data Mine program positively influenced students' career aspirations by exposing them to real-world projects and new fields. Many students discovered new interests and gained confidence in their chosen career paths through hands-on experience and professional development. This exposure helped them understand the practical applications of their skills and inspired them to explore new career opportunities.

"My experience in The Data Mine has opened my eyes to how data science can be applied to solve real-world problems. While I don't plan to fully dedicate my career to data science, working on projects like fraud detection has shown me the immense value data analysis can bring to various fields. **It's made me curious about how data-driven solutions can enhance decision-making and efficiency, no matter the industry.** This experience has inspired me to integrate data science tools and methods into my future career, regardless of the specific path I choose."

"Working with data and collaborating on various projects has sparked a **deeper interest in data analysis and research.** I've gained valuable skills and insights that have helped me realize the **importance of data-driven decision-making in many fields.** This experience has guided me toward pursuing a career in data science or analytics, where I can apply what I've learned and contribute to meaningful projects. Overall, the Data Mine has opened my eyes to new possibilities and **inspired me to explore a career that aligns with my passions.**"

SKILL GROWTH

Students obtained a variety of new skills through The Data Mine program, including technical skills such as coding, data analysis, and machine learning, as well as nontechnical skills like teamwork, communication, and time management. The hands-on projects and professional development opportunities helped them apply these skills in real-world scenarios. Overall, the program provided a comprehensive learning experience that enhanced both their technical and nontechnical abilities.

"The **biggest challenge I faced this year was time management**. I struggled throughout the semester to plan out my time properly to get my work done, but **I have improved a lot throughout the semester**, and hopefully I will continue to improve going into the spring semester."

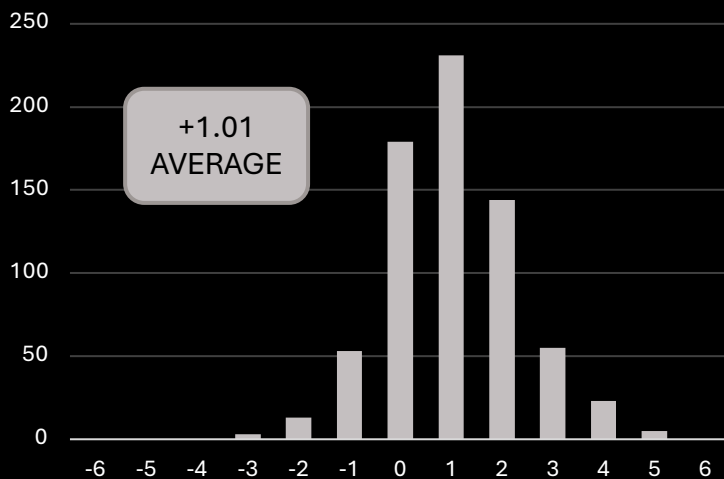
"It was my first time getting to work on hands-on projects and first-time learning Data Science tools like R and Jupyter notebooks, so **I appreciate the 1-credit seminar class as it taught me fundamental concepts** in the form of projects along with tutorials to use as a guide."

"I learned a lot this semester about data analysis, and I even **learned a new coding language** which I wasn't expecting."

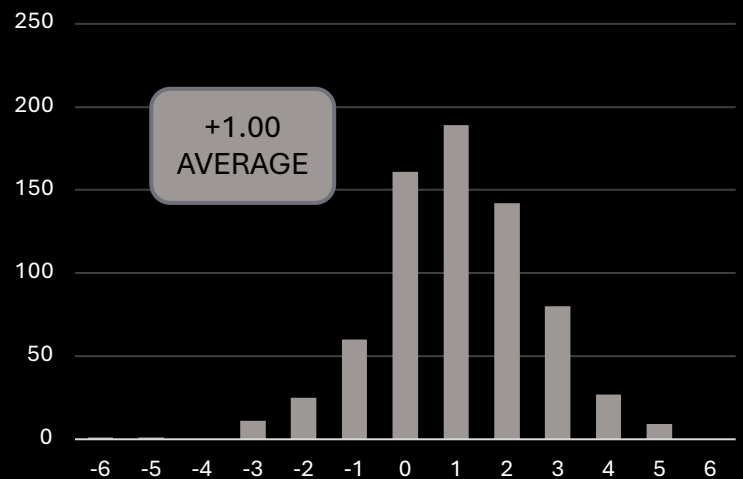
SKILL GROWTH

Students rate their confidence on a variety of skills in both our pre- and post- semester surveys. This page highlights the change on this confidence where a larger positive number is a larger positive growth in confidence.

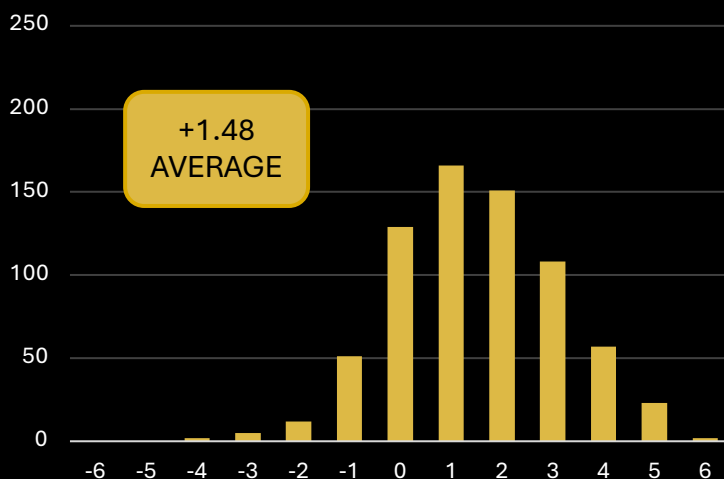
Computing



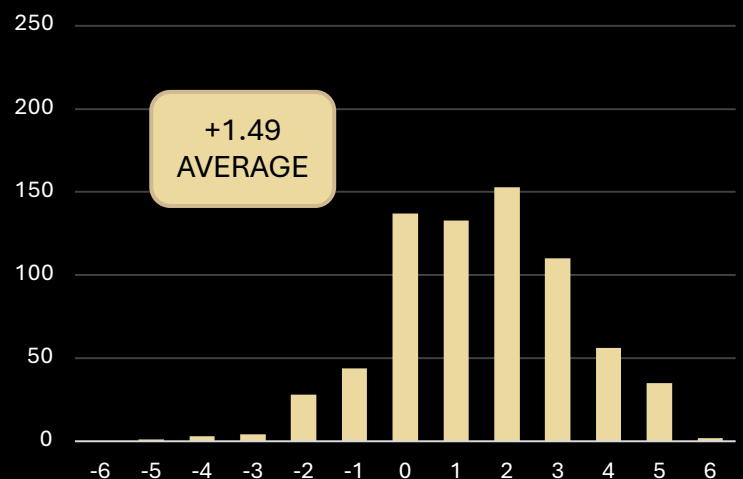
Data Visualization



Project Management



Time Management



While all skills we measured had an **overall positive growth trend**, soft-skills (like time and project management) grew more significantly than technical-skills (like programming).

LOOKING AHEAD

SPRING 2025

- Continued company visits
- Biweekly guest speakers from industry
- Recruiting for next academic school year (students, TA, partners)

END-OF-YEAR SYMPOSIUMS

Purdue's Student Innovation and Excellence Showcase:
The First Year in Indianapolis
April 24, 2025
*Campus Center
(Indianapolis)*

Data Mine Symposium
April 30, 2025
*France A. Córdova
Recreational Center
(West Lafayette)*

2025-26 APPLICATIONS



<https://datamine.purdue.edu/apply/>

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