PURDUE 

# **ABOUT THE DATA MINE**

- Data Science for All
- 2,000 students for AY 2024-25
- At West Lafayette Campus:
  - 160+ majors represented
  - 30% female
- ~ 133 students at MSIs in 2023-24
- ~ 120 students at MSIs already for 2024-25
- More than 50 colleges and university partners
- Launch of Purdue Indianapolis office in Jan 2024
- Launch of Data Mine of the Rockies in Aug 2024

### **SEMINAR (1 CREDIT)**

- 1 credit hour per semester
- 8 levels (4 years) + graduate students (M.S./Ph.D.)
- All content in The Examples Book • Publicly available at <u>the-examples-book.com</u>
- R, Python, SQL, bash, HPC, TBs of data



The Data Mine Seminar (on-site)



# **STUDENT QUOTES**

I ended up exchanging a few emails with you and your enthusiasm and encouragement was particularly infectious. I can't tell you how many times I used the examples book and so many of the data mine resources, and had great experiences during Datafest where I learned so much as well.

consider that conversation ... as a weirdly pivotal point in my journey. I think it made me realize that my aspirations weren't actually beyond me in the way that I thought that they were. I graduated this past May with a BS in Economics with a concentration in Data Analytics and also a BA in Political Science. As I've moved into the beginning of this next chapter... I just have felt compelled to thank some of the people who helped a highschool dropout get to a point in his life where he is positioned to start his career.

Dominican University – New York student team (2023-24)



within Indiana

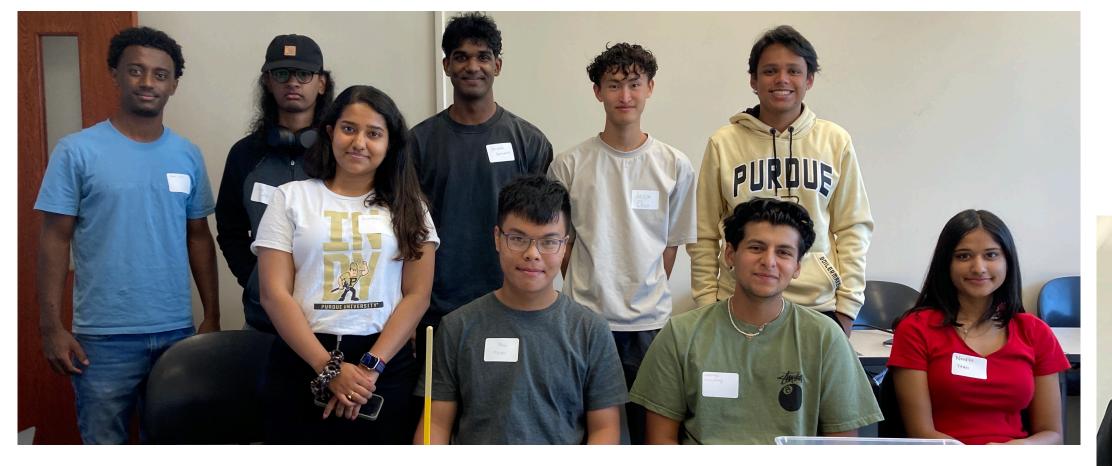
- **\$1.5** million NSF grant for MSI students nationwide **\$750K Convergence Accelerator grant for Deaf and** hard of hearing students

annual Data Mine Corporate Partners Symposium (April 2024)

# The National Data Mine Network **Experiential Industry Practicums in Data Science**



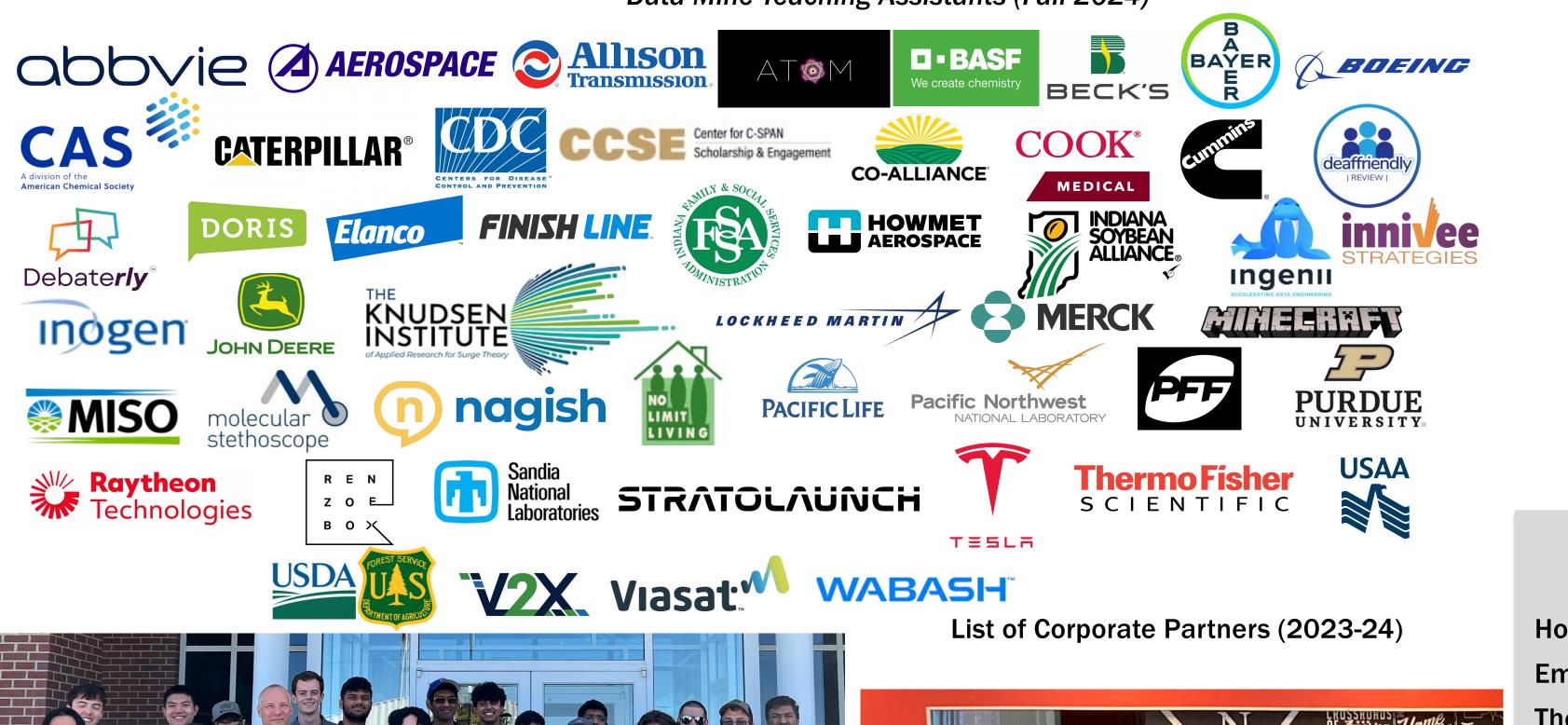
Elevance Health student team (Fall 2024)



Corteva student team (Fall 2024)

# GRANTS

**\$10** million Lilly Endowment grant for expansion





Students visit Beck's Hybrids in Atlanta, IN (September 2024)



President Chiang visits students in The Data Mine (Fall 2024)







**Students at new Data Mine Indianapolis office** (Fall 2024)



Supported by NSF funding from grant **#2123321 HDR DSC: National Data Mine Network** 



# **CORPORATE PARTNERS**

 Undergraduate and graduate students from all majors and computing backgrounds work in teams directly with partners in industry

• Teams of 5-15 students collaborate on data intensive projects via experiential learning

 Students are mentored by industry professionals during weekly team meetings

Teams are led by a paid team leader (typically an undergraduate student)

 Students earn 3 credit hours per semester and spend 8-10 hours per week working on the projects Projects last entire academic year (August – May) ~80 AY 2024-25 projects covering many domains: • Digital agriculture

• Aerospace

Manufacturing

• Life sciences

 Pharmaceutical Science / Drug Discovery • All projects conclude with a poster presentation at The Data Mine Corporate Partners Symposium

Students visit Yamaha in Greenfield, IN (Fall 2023)

# **RESOURCES & MEDIA**

Homepage: datamine.purdue.edu

Email: <u>datamine@purdue.edu</u>

The Examples Book: <u>the-examples-book.com</u>

Introducing The Data Mine video: <a href="https://youtu.be/R\_kqplMyhR4">https://youtu.be/R\_kqplMyhR4</a>

**Statewide Lilly Endowment grant in IN:** www.purdue.edu/newsroom/releases/2021/Q2/purdue-to-launch-

indiana-digital-crossroads-with-10-million-grant-from-lillyendowment.html

NSF Grant for MSIs: https://beta.nsf.gov/science-matters/developing **21st-century-data-science-workforce**