ACADEMIC PARTNERSHIPS

THE DATA MINE IS PROVIDING OPPORTUNITIES FOR STUDENTS TO LEARN DATA SCIENCE SKILLS AND GET REAL WORLD EXPERIENCE THROUGH PARTNERSHIPS WITH MINORITY SERVING INSTITUTIONS AND SMALL/MID-SIZED SCHOOLS.

DATA MINE SEMINAR

- Bring The Data Mine to your institution by utilizing our Data Science Training materials but earning credit at your school
- All students, regardless of background are welcome
- 1 project per week = 1 to 3 hours of student work per week
    - **Fall**: R
    - **Spring**: Python
    - **Other topics include:** UNIX, bash, SQL, XML, visualizing data, ML, and Deep Learning
- 4 course levels to support data science knowledge & experience

CORPORATE PARTNER PROJECTS

- **75+** Corporate Partner Projects
- Student experience course with data driven projects from industry
- Projects are designed to run a **full academic year** with weekly guidance from a corporate partner mentor
- Students build impactful industry related skills in data science, visualization, and data engineering
- 2 meetings per week + Project work = 10 to 13 hours of student work per week
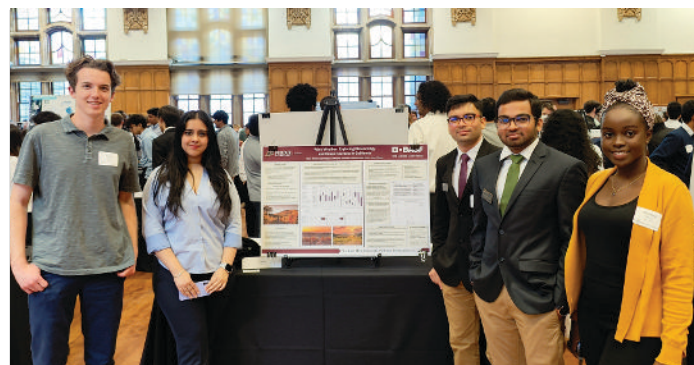- Earn credit at home academic institution

GRANT FUNDED INITIATIVES

- The Data Mine is currently operating projects through two grant funded initiatives:
    - **National Data Mine Network**, an NSF funded grant with the American Statistical Association to enable undergraduate students at MSIs to learn data science with hands-on work in research or data science projects by industry partners
    - **Indiana Data Mine Network**, supported by Lilly Endowment invites students from Indiana-based schools to participate in The Data Mine and engage with Indiana-based companies to grow the state's tech sector
    - Completed **DEAF PODS** (*Developing Experiential Accessible Framework for Partnerships & Opportunities in Data Science within the Deaf community*) last Spring & Summer semesters
    - Open to identifying collaborative grant opportunities with other university partners

STUDENT TESTIMONIAL

"I've always enjoyed working with data and creating a story from it, so when my university shared this opportunity with us, I thought it was a great way to apply what I had learned in the classroom to real projects. It was an excellent opportunity to gain some experience in data science while still in school and taking courses. I wasn't yet ready to start a data science project on my own, so I thought this would be a great way to learn how data science projects are conducted and what the data science process is like, in order to gain the confidence to work on my own projects."

-2nd Year Data Mine student @ University of Texas Rio Grande Valley

ACADEMIC PARTNERSHIPS

WHAT DOES SUPPORT LOOK LIKE FROM THE DATA MINE?

- Project support with dedicated TA assignment
- Project grading
- Student resources such as online TA office hours & an online community via Piazza available for students to post questions
- Technical support from our Data Science team
- Course communications & overall program management
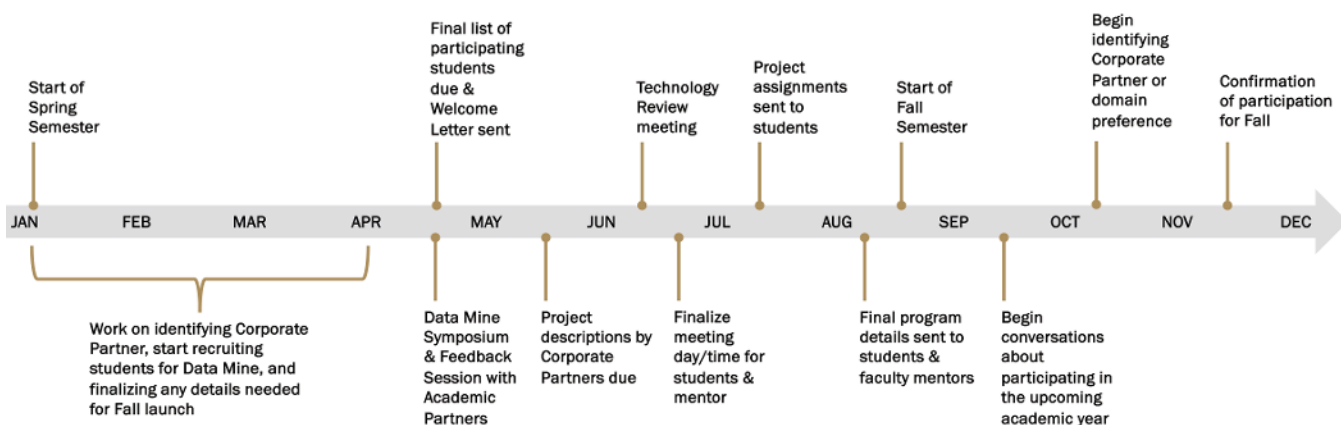- Poster review and technical presentation feedback

ROLE OF FACULTY FROM AN ACADEMIC PARTNER

- Create credit bearing course at home institution
- Student recruitment
- On-site student support (i.e. periodic check-ins on progress)
- Point of contact for Data Mine staff

NOTE: Faculty do not need to have data science experience to mentor students, but an interest in supporting students on a project

ROAD MAP TO PARTNERSHIP

Start of Spring Semester — JAN

Final list of participating students due & Welcome Letter sent — MAY

Technology Review meeting — JUN

Project assignments sent to students — JUL

Start of Fall Semester — SEP

Begin identifying Corporate Partner or domain preference — NOV

Confirmation of participation for Fall — DEC

JAN   FEB   MAR   APR   MAY   JUN   JUL   AUG   SEP   OCT   NOV   DEC

Work on identifying Corporate Partner, start recruiting students for Data Mine, and finalizing any details needed for Fall launch (JAN–APR)

Data Mine Symposium & Feedback Session with Academic Partners (MAY)

Project descriptions by Corporate Partners due (JUN)

Finalize meeting day/time for students & mentor (JUL)

Final program details sent to students & faculty mentors (AUG)

Begin conversations about participating in the upcoming academic year (OCT)

Onboarding Checklist

- Credit bearing course
- TA
- Corporate Partner

- Faculty Mentor
- Understanding of The Data Mine courses & logistics
- Systems access (Gradescope, Anvil, Piazza)

- Identify any university technology needs
- Sponsorship Acknowledgements, Addendums, NDAs, and IP agreements

Ready to learn more?

Contact us at datamine@purdue.edu

PURDUE UNIVERSITY

The Data Mine