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| **Skills Category** | **Skill Description** | **Beginner** | **Intermediate** | **Advanced** | **Expert** |
| **Research Methods and Professional Practice** | Develop a research question and hypothesis |  |  | ✅ |  |
| Conduct literature reviews and synthesize research |  |  | ✅ |  |
| Design research studies |  |  | ✅ |  |
| Collect and analyze data using appropriate methods |  |  | ✅ |  |
| Apply statistical analysis to research findings |  |  | ✅ |  |
| Write technical reports and research submissions |  | ✅ |  |  |
| Present findings and recommendations effectively |  |  | ✅ |  |
| Collaborate with peers and industry professionals |  |  | ✅ |  |
| Apply problem-solving techniques |  |  | ✅ |  |
| Plan and execute research projects |  |  | ✅ |  |
| Manage time and resources effectively |  |  | ✅ |  |
| Formulate research hypotheses and methodologies |  |  | ✅ |  |
| Apply qualitative and quantitative research techniques |  | ✅ |  |  |
| Apply best practices for professional conduct |  |  | ✅ |  |
|  |  |  |  |  |
|  |  |  |  |  |  |

SKILLS MATRIX

Action Plan

1. Improve proficiency in data analysis techniques.

* Practice data analysis with real-world datasets.
* Seek guidance from professors or peers on advanced analysis methods.

1. Enhance knowledge of qualitative research methods.

* Read research papers and books on qualitative research methodologies.
* Collaborate with peers who specialize in this area.

1. Develop stronger interpersonal and communication skills.

- Participate in seminars and engage with tutors and peers.

1. Continuously assess and update the Professional Skills Matrix and Personal Development Plan (PDP).

- Regularly review and revise the matrix based on skill development.

- Set new goals and priorities in the PDP as skills improve and career goals evolve.

1. Seek mentorship and feedback.

- Identify a mentor in the field of cybersecurity or research.

- Request feedback from professors, mentors, or peers on projects and presentations.