

Course	Skills	Strongest	Weakest	Github Examples of work
CIDM 6312 - Seminar in Information Visualizatio n	Overview of the different types of informatio n visualizatio n techniques and exemplars. Topics include visual perception , visual representa tions and interaction techniques , visual encodings of data and transforma tion, cognitive issues behind informatio n visualizatio n, and theoretical and applied technical concepts of visual analytics.	different types of informatio n visualizatio n techniques and exemplars, visual representa tions	Python	https://github.com/ProtivaMehnaz/ Seminar-in-Information- Visualization-CIDM-6312
CIDM 6308 - Seminar	The application of business intelligenc	machine learning tools, predictive	hypothes s testing, practical applicatio	https://github.com/ProtivaMehnaz/ Seminar in Data-Analytics-CIDM- 6308-

in Data Analytics	e using logistic regression, linear regression modeling, hypothesis testing, machine learning tools, and predictive modeling. Emphasis is on the practical application of statistical tools in business.	modeling, linear regression modeling, the application of business intelligence using logistic regression	n of statistical tools in business	
CIDM 6351 - Business Data Extraction, Transformation, and Load	Extraction and transformation of data from external sources to include cleaning, normalizing, and repairing in preparation for use in federated data persistence platforms.	Extraction and transformation of data from external sources to include cleaning, normalizing, and repairing in preparation for use in federated data persistence platforms.	Web scrapping, python	https://github.com/ProtivaMehnaz/CIDM-6351---Business-Data-Extraction-Transformation-and-Load/tree/main
CIDM 6355 - Data	Study and application of concepts	Naïve bayes, analysis, decision	Analysis using R.	https://github.com/ProtivaMehnaz/Data-Mining-Methods-CIDM-6355

<p>Mining Methods</p>	<p>and techniques related to management and usage of data, online analytical processing, and data mining concepts, tools, and techniques. Principles of data analysis, classification, categorization, and sampling in support of business intelligence operations.</p>	<p>tree analysis, logistic regression analysis, neural network analysis.</p>		
<p>CIDM 6303 - Technical Foundations in Computer Information Systems</p>	<p>Foundational topics in structured and procedural programming, database management, and software/web development. Topics include procedural</p>	<p>Foundational topics in structured and procedural programming, database management, and software/web development. Topics include procedural</p>	<p>Django, Python</p>	<p>https://github.com/ProtivaMehnaz/Technical-Foundations-in-Computer-Information-Systems-CIDM-6303</p>

	<p>programming, object-oriented programming, data access, HTML/CSS, structured query language, data normalization, entity relational diagrams, and object modeling.</p>	<p>programming, object-oriented programming, data access, HTML/CSS, structured query language, data normalization, entity relational diagrams, and object modeling.</p>		
<p>CIDM*5360 Object Orient Analysis and Design</p>	<p>Thorough examination of principles of software engineering concepts. Use of object-oriented paradigm to design, analyze, and construct enterprise business applications. Traditional structured systems design and analysis. Emphasis</p>	<p>UML diagrams (State, use case, class, activity, sequence, etc.)</p>	<p>Three tire architecture, Deploy Website with WordPress on Azure Cloud</p>	<p>https://github.com/ProtivaMehnaz/Object-Orient-ANALYSIS-DESIGN--CIDM-5360/tree/main</p>

	on information analysis and logical requirement specifications of systems and validity, software quality and metrics.			
CIDM*6341 Cybersecurity	Understanding of common attacking techniques , Knowledge of security protocols, Real system implementations expertise, Proficiency in network intrusion detection, Skill in risk assessment, Web security knowledge, Familiarity with legal and ethical issues in computer security, Governanc	Knowledge of security protocols, Real system implementations expertise, Skill in risk assessment, Threat vulnerability management expertise, Familiarity with legal and ethical issues in computer security	Understanding of common attacking techniques, Proficiency in network intrusion detection, Web security knowledge , Governanc e and security policy comprehension, Cryptography knowledge and skills.	https://github.com/ProtivaMehnaz/Cybersecurity-CIDM-6341-01

	e and security policy comprehension, Threat vulnerability management expertise, Cryptography knowledge and skills.			
CIDM 6356 - Digital Forensics and Fraud Detection	Identification of fraud and fabrication of information using business analytics. Domains include financial fraud, health care fraud, insurance fraud, etc. Necessary techniques include artificial intelligence and advanced machine learning.	Expertise in financial fraud analysis, Utilization of artificial intelligence in fraud detection	Application of advanced machine learning techniques	https://github.com/ProtivaMehnaz/Digital-Forensics-and-Fraud-Detection-CIDM-6356