Mapping of Data Science PILOs with Department Vision & Mission

PILO Category	Program Intended Learning Outcome (PILO)	Alignment with Department Vision	Alignment with Department Mission
A. Knowledge	PILO-1: Analyze complex computing problems using principles of computing and relevant disciplines.	Supports becoming a pioneering research department in data science solutions.	Enables students to identify and address data science challenges through modern academic programs.
	PILO-2: Design, implement, and evaluate computing-based solutions to meet requirements.	Drives development and dissemination of data science solutions (local/regional impact).	Provides standardized teaching/training to develop practical, scalable data solutions.
B. Skills	PILO-3: Communicate effectively in professional contexts.	Establishes the department as a hub for articulate data science professionals.	Ensures students can present data insights clearly in a pioneering academic environment.
	PILO-4: Recognize professional responsibilities and make ethical judgments in computing.	Reinforces ethical data practices (e.g., privacy, bias mitigation) in research.	Trains students to handle data-related challenges with legal/ethical awareness (e.g., GDPR, AI ethics).
C. Competences	PILO-5: Function effectively as a team member/leader in data science activities.	Promotes collaborative R&D (e.g., interdisciplinary data projects).	Prepares students for real-world teamwork (e.g., data engineering, analytics roles).
	PILO-6: Apply theory, techniques, and tools across the data science lifecycle to meet stakeholder needs.	data science solutions (applied	Equips graduates to solve stakeholder problems (e.g., business, healthcare) via endto-end data pipelines.