İçerik

Ders Kodu	Dersin Adı	Yarıyıl	Teori	Uygulama	Lab	Kredisi	AKTS
INF 528	Bilgisayar Mühendisliğinde İleri Konular	1	3	0	0	3	6

Ön Koşul	
Derse Kabul Koşulları	
Dersin Dili	İngilizce
Türü	Seçmeli
Dersin Düzeyi	Yüksek Lisans
Dersin Amacı	Students are initially introduced to the principles of graph databases in this course, a potent data management tool for effectively storing, searching, and analysing data with complicated relationships. Students will learn the principles, design patterns, and practical applications of graph databases. Second, it facilitates in examining the nexus between two cutting-edge areas of computer science: large language models and graph databases. Large language models like GPT-3 have revolutionized the interpretation and creation of natural language, whereas graph databases are meant to manage complicated connections in data quickly. The course's major goal is to teach students how to use both technologies' strengths to tackle challenges in the real world, including those involving knowledge graphs, recommendation engines, and other topics
İçerik	1. Introduction to Graph Databases and Large Language Models 2. Graph Database Fundamentals 3. Data Modelling with Graph Database 4. Query languages for graph databases (Cypher). 5. Querying and Manipulating Graph Data 6. Large Language Models (LLMs) 7. Combining Graph Databases and LLMs 8. Knowledge graphs 9. Performance Optimization and Scaling 10. Future Trends and Emerging Technologies 11. Ethical and Privacy Considerations
Kaynaklar	- Online tutorials - Documentation of graph database management systems - Research papers and articles on graph databases

Teori Konu Başlıkları

Hafta	Konu Başlıkları