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Machine learning techniques including supervised, unsupervised, and reinforcement learning.  
Big data technologies, distributed computing, and scalable system architectures.  
The role of version control using Git and collaborative workflows in programming teams.  
AI ethics, responsible AI, and the future of artificial intelligence in society.  
The history of computing, evolution of programming languages, and software paradigms.  
Agile methodologies, sprint planning, and project management in software teams.  
Data structures and algorithms, their efficiency, and real-world applications.  
Natural language processing, text mining, and AI-driven content generation.  
Introduction to cloud computing, APIs, and modern software deployment practices.  
Data analysis, visualization, and the role of Python libraries like pandas, matplotlib, and seaborn.  
The importance of clean code and software engineering best practices.  
Cybersecurity fundamentals, secure coding practices, and threat mitigation.  
Testing, debugging, and performance optimization in software development..