Software Engineering and Bug Detection Using Graph Theory

🔗 **Video:** https://drive.google.com/file/d/1eomc1q-KbLa44K_WpIEXEeAXpjtpBt52/view?usp=drivesdk

📌 **Title:** Graph Theory in Software Engineering & Bug Detection

🎨 **Thumbnail Content:** Graph Theory in Software Engineering & Bug Detection

Description:

Ever wondered how software engineers detect bugs efficiently? Graph Theory plays a crucial role in software analysis, helping developers visualize and resolve complex dependencies, detect dead code, and optimize program structures.

🔹 **What You'll Learn:**

✅ Key graph types used in software engineering

✅ Graph representations in programs (Control Flow Graphs, Dependency Graphs, Data Flow Graphs)

✅ Techniques for bug detection using graphs

✅ Real-world applications: LLVM, Code Sonar, Google Bug Prediction

✅ Benefits of using Graph Theory in software development

💡 **Case Study:** Learn how leading tech companies use graph-based techniques to enhance software reliability and performance!

👨‍💻 **About Me:**

I'm Salvin Sorgy, an MCA student at Marian College Kuttikkanam (Autonomous), passionate about Machine Learning, Software Development, and Optimization Techniques.

📌 **Stay Connected:**

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