Genetic Algorithm :-A genetic algorithm (GA) is a method to solve optimization problems by minicking natural solection. Here's the process in short Le Defene the problem: set the function to 2. Initialise Parameters: Set population size, mutation/crossover rates and number of generations. generation. 3. Create Instial Population: Generale random 4. Evaluate fitnes Measure how good each solution is 5. Selection: Peck the best solutions for sepsoduction. reproduction. 6. Crossover: Combine parts of selected solution 7. Mutation? Apply sandom changes to maintain diversity. 8. Iteration: Repeat the proces for multiple generations. 9. Best Solution: Output the best solution foundi This cycle evolves better solutions over time

Application of GA. Suntagel situation 10 Optimization Broblems Missell Strang A Machine dearning door nothing 3. Fenance us about add asset nothered or 4. Robotics and tol a resident and england 5. Game Development 6. Broinformatics 7. Ast and Design 8. Telecommunications: promo 19 montoure 9. Production scheduling en a Monufacturing 5 Greate Tritted Population: General roads Algoretum 9 Start 1 -> (reate instral population of the -) Calculate fitness score for each enderedual -) repeat D Solution Selection & 199 and 100 3 > Crossover . Nottenborger > Mutation to Calculation of fitness score until convergence sels found storm of I Choose the Enderdual with high fitness F. Mertotion: Apply sandom changellar mobiled > Stop. longer the process for mustiple tulos tood Output