

WHY BCG GAMMA ENERGY?



Impact

Deep understanding of clients and their business context

Extensive experience leading digital across industries and functions



Opportunity

Top tier consulting firm pioneering and leading strategy consulting

90 Offices, +50 countries and 23k BCGers



People

International experience

Client exposure

Step learning curve

Training opportunities

WHAT ARE WE LOOKING FOR?



Talent

We offer multiple career paths for the world's best talent

We count on your authenticity, exceptional work and integrity



Technical background

Innovative skills in computer science, AI and statistics

Ability to apply edge analytic approaches, data and technology



Long-term view

Commitment to join our world-class team of data engineers, data scientists and business & expert consultants

SELECTED PROJECT: **ADVANCED SCHEDULING**



Refinery scheduling consists in planning the operations for a certain period to maximize profit while respecting multiple constraints



Complexity associated to scheduling is beyond a human's ability to find the optimal solution



Advanced Scheduling is a tool that optimizes the end-to-end refinery scheduling, from crude ships reception to product dispatch management



The tool optimization has proven to have an annual impact of more than 30M€ due to the enormous processing capacity of refineries



Optimal solutions generated through a genetic algorithm: scenarios are explored to execute the necessary tasks using randomness to resemble mutation and they are propagated to the next generation



The software stack is C++ and Python for backend, JavaScript for frontend and Docker for containerization, after being deployed to a web server the tool is accessed via browser