Abdulaziz Aldoseri

+973 32239099 | abdulaziz.aldoseri@gmail.com

Profile: Economist with more than ten years of experience in energy market analysis and policy research, currently leveraging advanced analytics and optimization techniques enabling data-driven decision-making in the energy sector.

Main Skills

- **Economic Analysis:** Quantitative Modeling, Market Dynamics, Project Valuation, Cash Flow Analysis
- **Technical Skills:** Excel (Advanced Business Analytics), Python, R, Data Analysis, Algorithm Development
- **Decision Analysis:** Real Options Analysis, Risk Assessment, Scenario Modeling, Predictive Modeling
- **Optimization:** Linear Programming, Machine Learning, Dynamic Programming, Data-Driven Decision-Making

Professional Experience

DERASAT | Economics and Energy Studies Program   **Awali, Bahrain**

Research Associate   **Sep 2020 – Present**

- Spearheading policy-oriented research on energy economics, focusing on qualitative analysis of oil market trends and policy implications.
- Authored comprehensive reports and presented research findings at regional conferences, contributing to energy policy discussions and decision-making processes.
- Engaged in studies in industrial engineering, focusing on operations research to enhance data-driven analysis and optimization in energy policy research.

Analyst   **Sep 2017 – Aug 2020**

- Conducted in-depth qualitative research on global energy markets, supporting strategic policy development and providing insights for government and industry stakeholders.
- Managed independent research projects, from conceptualization to publication while ensuring alignment with the center's strategic goals.

Research Assistant   **Jun 2014 – Aug 2017**

- Led qualitative research projects that were focused on oil market analysis and policy assessment.
- Produced and presented detailed reports that informed regional energy policy and market strategies, earning recognition for thorough and impactful analysis.

Education

Boğaziçi University   **Istanbul, Turkey**
Master of Science, Industrial Engineering – Operations Research   2024

State University of New York at Binghamton   **Binghamton, New York**
Master of Art, Economics with a minor in Finance (Fulbright Scholarship)   2011

University of Bahrain   **Kingdom of Bahrain**
Bachelor of Science, Business Information Systems   2008

Projects

Boğaziçi University   **Istanbul, Turkey**
Natural Gas Storage Valuation – Thesis

- Demonstrated the viability of Deep Reinforcement Learning for valuing natural gas storage assets, providing energy merchant companies with an innovative tool for investment decision-making and acquisition strategies.
- Developed a DRL model using the SAC algorithm for natural gas storage valuation, leveraging ANNs for high-dimensional decision-making and real price data for accurate trading.
- Validated the model's performance through formal benchmarking against PPO and TD3, with enhanced reproducibility and decision accuracy.