

# Krishno Sarkar

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## Business & Data Analyst | Operations Planning Engineer

*Optimizing operations to reduce costs and improve profits*

Pragmatic and resourceful chemical engineer with around 15 years of experience in the process industry. Having sound knowledge in data management and analysis techniques like data mining, cleaning, analysis, and data visualization using Python, R, SQL, Power BI, Tableau, and Excel for analytics. Also proficient in social research methods, ethics, and data collection techniques. Having good knowledge in operations planning, machine learning techniques, economics, and optimization. Proficient in using linear programming (LP) models for optimization. Adept at managing small projects. A good team player and competent communicator.

### Core Competencies:

- Planning & Scheduling
- Data Analysis.
- Process Optimization
- Project Management

- Data Visualization
- Social Research Methods
- Machine Learning
- Linear Programming.

### Selected Contribution

- Collectively led the successful implementation of a 500 ppm Gasoil production capability. (Benefit: 60 million US \$). This involved data collection, management, and multiple linear programming models run for optimum results.
- Developed inter-facility transfer stream pricing within three refineries using the LP model. This involved data collection, analysis, and visualization.
- Carried out economic studies on the global LP model as required from time to time like hydrocracker priority, breakeven calculation, etc.
- Implemented project on 10-ppm Gasoil and gasoline introduction for Kuwait local market.

### Professional Experience (*the last 3*)

North Atlantic Refining LP (NARL), Newfoundland and Labrador, Canada

#### Senior Crude Oil Scheduler | Planning and Scheduling, 2018 – 2019

Responsible for crude oil scheduling from nomination till receipt in crude tanks. Coordinated with stakeholders, suppliers, traders, and marine agencies to ensure on-time delivery. Maintained crude oil databases.

Hyperion Systems Engineering Ltd., Kuwait

#### Functional Support Engineer | Manufacturing Optimization Group, 2015 – 2018

Provided functional support to the Supply Chain Optimization (SCO) team at KNPC Kuwait. Responsible for maintaining the economic model for the refinery. Handled large datasets and organized data to visualize.

Heston (under operation by KNPC), Kuwait

#### Production Planning Engineer | Economics and Planning, 2007 – 2012

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Page 2 of 2

Developed short-term and mid-term operating plans for the refinery. Created refinery profitability forecast report using LP results and identified short-term opportunities using the LP model. Maintained database of international market crude oil prices.

## Technical Proficiencies

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<b>Software &amp; Tools:</b>	Tableau, Power BI, MySQL, Excel for analytics, HTML, Microsoft Office 365
<b>Languages:</b>	Python, R programming

## Education and Credentials

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### **Postgraduate Diploma in Business Analytics, (June 2022)**

Cambrian College, Sudbury, Ontario, Canada

The program provided essential knowledge and skills in data analytics and visualization using tools like MySQL for database management, dashboards using advanced Excel, statistics using R programming language, connecting data from Python with HTML, data importing, cleaning, imputation, and analysis using Python and Jupyter notebook, data storytelling using visualization tools like PowerBI, Tableau and Excel, GIS Mapping (using ArcGIS pro), social research methods and ethics.

### **Master of Science in Petroleum Refining System Engineering, (August 2013)**

University of Surrey, Guildford, United Kingdom

Research Dissertation: Hydrogen Production: Steam Methane Reforming Vs Pet Coke Gasification.

### **Bachelor of Engineering in Chemical Engineering.**

Panjab University, Chandigarh, India

## Courses & Certifications

- TCPS2: Core certificate
- Datacamp courses for data analytics using Python, data visualization using Tableau and Power BI, data manipulation, and predictive analysis.

## Other

Certified CC (Competent Communicator) and CL (Competent Leader) from Toastmasters International

Certified Yoga Instructor, US Yoga Alliance.

Present status in Canada: Permanent Resident

## References:

- Dr. Sidney Shapiro, Professor of Data Analytics, Cambrian College, Sudbury, ON  
Email: SIDNEY.shapiro@cambriancollege.ca
- Jenna Guse, Coordinator and Professor, Cambrian College, Sudbury, ON  
Email: jenna.guse@cambriancollege.ca