RANGANATH VENKATARAMAN

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Chemical Engineer with MBA, Data Science and Machine Learning aspirant. Familiar with Python, R, SQL, and COBOL. Experience in project development and process engineering in the energy industry.

EXPERIENCE

DATA ENTHUSIAST, (FEBRUARY 2020 – PRESENT)
- Owner of Data Analysis of Oil Refining blog
- Completed Coursera Specializations: Deep Learning, Math for Machine Learning
- Kaggle competitor, top 15% in Titanic competition

PROCESS AND ASSET DEVELOPMENT ENGINEER, BP CHERRY POINT (JUNE 2016 – PRESENT)
- Completed front end engineering (FEED) and business cases for complex projects worth $10mil - $30mil e.g. hydrocracker exchanger upgrades
- Saved $5.5 million and 2 years' work in unproven venture by challenging refinery leadership using unbiased business case.
- Developed refinery strategy to comply with LPG storage safety standards by leading interdisciplinary team that included refinery leadership

TURNAROUND PROCESS LEAD, BP (MULTIPLE ROTATIONS, 2016-19)
- Led teams of young engineers in delivering safe and high quality technical work during 12-hour night shifts of refinery maintenance
- Accountable for quality of technical work by process engineering team – mentored young engineers and grew company capability in Turnarounds.

UNIT PROCESS ENGINEER, BP (MAY 2014 – JUNE 2016)
- Operations support, troubleshooting, and optimization of units including hydrogen production, diesel Hydrotreating, and hydrocracking.
- Saved $222,000 annually through no-cost improvements in heater efficiencies

PROCESS DESIGN ENGINEER, BP (SEPT 2013 – MAY 2014)
- Led technical and economic evaluations for complex projects worth $100k - $1mill

UNIT PROCESS ENGINEER, LYONDELLBASELL (AUG 2013 – SEPT 2013)
- Grew site revenue by $500,000 / day by identifying incremental processing capability in ethane cracking furnaces at Corpus Christi site.
- Delivered technical support and optimization for technologies including alkylation, C5 recovery, ethylene separation, and oxo-alcohols.

- Technical lead for multiple capital projects including: isolation valve installation in flare headers, tube insert installation into Alkylation contactors

EDUCATION

DECEMBER 2018
MBA, WESTERN WASHINGTON UNIVERSITY

DECEMBER 2014
MASTER'S IN CHEMICAL ENGINEERING, UNIVERSITY OF HOUSTON

DECEMBER 2008
BACHELOR'S IN CHEMICAL ENGINEERING, GEORGIA INSTITUTE OF TECHNOLOGY

SKILLS

- R, Python, SQL
- Visualization: ggplot, Seaborn, Matplotlib
- Machine Learning: Scikit-learn, Pandas, Numpy
- Deep Learning: Keras, TensorFlow
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