

SIDDHARTH RAJA

siddharth.raja@queensu.ca | <https://www.linkedin.com/in/siddharth-raja2> | <https://github.com/siddh1990> | 905-483-0420

EDUCATION

Master of Management in Artificial Intelligence (MMAI) Smith School of Business, Queen’s University, Kingston, ON	2023-2024
<ul style="list-style-type: none">Won Machine Learning Cup -2024 and awarded 3rd Place in Natural Language Processing Cup -2024 for academic excellenceWinner of Hackathon organized by Queen’s University with cash prize of 10, 000 CAD for conceptualizing a viable solution to promote financial inclusivity in Canada	
Post Graduate Diploma in Business Analytics Birla Institute of Technology and Science, India	2021-2022
Bachelor of Technology in Applied Petroleum Engineering University of Petroleum and Energy Studies, India	2008-2012

PROFESSIONAL EXPERIENCE

Data Scientist , Queen's University Alternative Assets Fund (QUAAF) Co-op <i>QUAAF is a student-directed portfolio of hedge funds managing \$650k of funds endowed to Queen's University</i>	2024- Present
<ul style="list-style-type: none">Responsible for developing automated tools to assist stock selection, valuation, portfolio optimization, creating trading strategies, and implementing an interactive performance dashboardCreated stock prediction model in python using long short term memory (LSTM) architecture of neural network	
Development Manager , ONGC Videsh Ltd, South Sudan <i>Seconded to a joint venture owned by Petronas (Malaysia), ONGC Videsh Ltd. (India), and Nile Petroleum Corp. (South Sudan)</i>	2021 – 2023
<ul style="list-style-type: none">Collaborated with a cross-functional team, including 4 senior professionals and 5 interns, to execute data-driven analysis, utilizing foundational AI concepts to identify workover opportunities, contributing to a production gain of 4000 barrels/ day	
Associate Reservoir Engineer, Reservoir Engineer , ONGC Videsh Ltd., India	2013-2021
<ul style="list-style-type: none">Applied advanced data analytics to conduct comprehensive research on technical data from 8 international acquisition projects across diverse regions, including Africa, South-East Asia, North and South AmericaCollaborated cross-functionally with finance and risk teams, leveraging financial modeling to perform sensitivity analysis across various technical facets, enhancing the precision of commercial proposals for oil field acquisitions and operations	

ACADEMIC PROJECTS

Financial analysis of 64 stocks of National Stock Exchange, India Created R code for financial data analysis, including stock data retrieval, data transformation, time series analysis, and risk-return calculations. Developed dashboard to visually map stocks on the Risk-Return scale
Analysis of public sentiment against vaccinations Developed python code to train machine learning algorithms including language models against twitter dataset to monitor public sentiment against vaccinations to help governments improve vaccination communication policies
Tableau data visualization dashboard for strategic decision making Developed a reporting dashboard to analyze restaurant and cuisine data (for Zomato food delivery app with more than 10,000 restaurants) and recommended three optimal locations for new establishments
Prediction of credit default risk for mortgages for a major bank Utilized DataRobot AutoML platform to develop a credit risk prediction algorithm based on customer demographics and credit history. Created user-friendly front-end interface tailored for bank employees

SKILLS

Languages: Python, R, SQL	Data Visualization: Power BI, Tableau, Google Analytics
Platform: Git (Github), Azure ML, DataRobot, Google Colab	Softwares: MS Office, Visual Studio Code, Power Apps
Libraries: Pandas, Numpy, Scikit-Learn, Matplotlib, Seaborn, OpenCV, Tensorflow, Keras, Pytorch, HuggingFace	Algorithms: Logistic Regression, SVM, Decision Tree, Random Forest, Xgboost, Catboost, Light GBM, Neural Network

EXTRACURRICULAR ACTIVITY

Volunteer , Be My Eyes	2023- Present
<ul style="list-style-type: none">Provided assistance through an app to help visually impaired individuals who need support for day-to-day tasks	