Abishek Ramachandraraju Krishnaraj https://www.linkedin.com/in/abishek-ramachandraraju-k-3456b5a3/

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Program Management enthusiast with 7+ years of industry experience. Looking to leverage business acumen, technical & inter-personal skills. Creative problem-solver, skilled at identifying & bootstrapping new opportunities.

Technical Skills:

- Data Analytics & Visualization: Tableau, SQL, Excel Analytics, Google Analytics
- Machine Learning & Statistics: DataRobot, Python (ML libraries), R, SAS, Monte Carlo Simulation, Deep Learning, Computer Vision, Market Basket Analysis, Naïve Bayes, Ensemble Learning, KNN, Classification & Regression Trees, Clustering, Neural Networks, TensorFlow
- Cloud Computing: AWS
- Version Control & Collaboration: Git
- Process & Diagramming: Visio

Business Skills:

- Project & Program Management: Project Management, Scenario Planning & Budgeting, Agile (Scrum/Kanban), Test & Learn Strategies, Campaign Management
- People Management: Leading and managing cross-functional teams
- User Research & Segmentation: Conducting user research, Segmentation analysis
- Testing & Optimization: A/B Testing, Iterative testing strategies

PROFESSIONAL EXPERIENCE

Qualcomm Technologies Inc., San Diego, California   **Feb 2019 – Present**
    Data Science & Advanced Analytics Leadership

- Headed a dynamic data science team in the development of advanced deep-learning models (Xception, Vision Transformers) for wafer-defect classification at international foundries in Munich, Wushi & Singapore, resulting in significant cost savings and a remarkable increase in wafer yield of approximately 1%.
- Led the MLOps team in deploying, managing, and governing models in production, emphasizing operational key metrics and drift tracking to ensure sustained model efficacy.
- Formulated and executed the strategy for a real-time wafer-classification product with integrated monitoring and scheduling capabilities, optimizing defect detection processes.
- Pioneered discussions and presented innovative AI solutions to address longstanding challenges in chip defect prediction.
- Cultivated and strengthened client relationships, utilizing analytical methods to identify critical business questions and provide strategic insights.
- Identified and capitalized on new revenue streams, including collaborations with foundries for chipcode recognition of digitally inscribed text on images using OCRs (Pytesseract, Calamari, Easy, Keras). Additionally, partnered with a finance domain client to forecast headcount through time series analysis, demonstrating its significant monetary impact.
- Managed IT's priority products (Query API, data science & data engineering ticketing system), overseeing feature enhancements and bug fixes. Led a team of 7 analysts and staff to deliver collaboratively across lines of service.
- Achieved substantial monthly cost savings of up to $20,000 on AWS OpEx by proactively implementing EC2 Watchdog on all user accounts.
- Conducted in-depth research and executed drift studies to enhance model stability, utilizing advanced techniques such as Jenson Shannon and good-die bad-neighborhood. Leveraged density-based feature plots and wafer-level correlations to discern patterns.
- Developed strategies to instill client trust in Qualcomm IT data systems, conducting end-user research, building transparent real-time metrics on Tableau dashboards, and implementing data extraction mechanisms for timely issue resolution.

- Spearheaded the development of a data lake, overseeing the onboarding of semiconductor products, identifying data gaps, and leading the systemic closure of data gaps, resulting in substantial cost savings.
- Collaborated with Data Science stakeholders, providing development, hands-on QA, creating support documentation, and training global support teams across Taiwan & India.
- Recommended and championed the development & launch of an automated end-to-end data pipeline monitoring product, resulting in a 99.16% reduction in analysis time and freeing up manual resources.

Qualcomm Technologies Inc., San Diego, California   **Summer 2018**
    Intern
- Built machine learning models to predict probable failure of manufactured-chips at *System Level Testing* stage, using principal component analysis & Random Forest algorithm. This reduces costs and time to market the chips
- Identified a break in the Data Engineering ML pipeline, that I fixed to increase the available manufacturing-data in database by 65% and recommended enhancements based on testing in pipeline using Pyspark & MapR db (NoSQL)

EXL, Decision Analytics, Bangalore, India   **Oct 2015 – May 2017**
    Management Consulting at Johnson Controls Inc.(via EXL) | Senior Business Analyst
    Management Consulting for Johnson Controls Inc.'s clients to optimize US Operations & Strategize businesses
- Forecasted aggregate footfall across retail stores in US for Black Friday 2016, helped end-clients better strategize promotions and built a suitable pricing model, enabled them to drive retail product growth
- Independently developed a benchmarking metric and implemented at 5 geographical levels in 107 countries. This operations research project enabled review of business strategy in those countries
- Implemented geographical tagging of retail sites around airports to corresponding airports using Federal Aviation Administration data with validated accuracy of 90%; provided an addition to product line & increased client's revenue

ACADEMIC EXPERIENCE:

UConn School of Business, Hartford, CT
    Healthcare Analytics Consultant – (Capstone Project partnering with **LIMRA**, Windsor, CT)   **Fall 2018**
- Led a 5-member team to provide recommendations on factors contributing to customer churn, categorical focus on customers for better retention, agents' performance & categorical identification of risky policies

    FinTech Analytics Consultant – (**Travelers Insurance** case-study)   **Spring 2018**
- Identified top factors for customer retention rate, fixing premium for area & life of dwelling, good/bad customers and strategy for customer retention

    Graduate Teaching Assistant – Data Management and Business Process Modelling   **Jan 2018 – Dec 2018**
- Instructed students during class hours with hands-on exercises on relational data management, including conceptual modeling, table design, businesses process re-engineering and Structured Query Language (SQL)

ACADEMIC PROJECTS

- ***Amazon Product Rating Prediction & Text Mining Analysis*** – To enrich data for customers to make better decisions- Predicted a product's user rating by building SGD classifier factoring-in user sentiments & mining the reviews
- ***Business Decision Modelling*** - Enhanced current-process of a store with innovative business strategies by conducting market research and built a SQL database for operations & inventory management, to minimize processing time
- ***Sports Analytics, NBA*** - Developed an NBA fantasy league system and created dashboards with insights on players' performance using Tableau, designed to help fans plan their strategy for picking fantasy teams
- ***Logistics Optimization & Procurement Strategy*** – Engineered a spreadsheet model to perform break even, what-if, impact sensitivity analysis and simulated scenarios to optimize logistics & procurement strategy for a retailer
- ***Housing Price Prediction*** – Supervised Regression Model: Applied Random Forest to reduce dimensions & implemented a linear regression model to predict prices in Python/R
- ***Boeing 787 Dreamliner*** – Project Failure – Project Management Case Study: Exploited conventional project management tool viz. Charter, Critical Path Analysis, Project Plan, Budget Plan, Risk Log, Project Status etc., to perform an inquisitive analysis on project's failure to meet initial deadlines and requirements

EDUCATION

MS, Business Analytics and Project Management   **2017 - 2018**
UConn School of Business, Hartford, USA.

B.E., Electronics and Communication Engineering   **2011 - 2015**
BMS College of Engineering, Bangalore, India.

ADDITIONAL INFORMATION

Leadership/Awards: *Qualstar Award* Qualcomm for outstanding contribution(Q2 2019), *u2q club board member* at Qualcomm(4000+ members), Board member at *YMS culture club* Qualcomm, selected member of *UConn Hartford Student Career Council*, *CMCA* Club-Division President, *School Captain* & *Cultural Secretary* at high school
Interests: piano, fiction-novels, badminton, travel