Qichun (Jackson) Yu

Data Analyst · Data Scientist · Machine Learning Developer

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Summary

Highly motivated and results-driven Data Science professional with a background in machine learning, data visualization, and data analytics. Recently completed a program in Data Science and Machine Learning at Red River College Polytech and currently working as an intern at the Bank of Canada as a Student - IT Systems Development. Proficient in Python, R, SQL, Tableau, and PowerBI, with a strong analytical mind and ability to identify patterns and trends in data. Seeking to leverage my skills and experience to drive data-driven insights and solutions at a forward-thinking organization.

Education

Data Science and Machine Learning   **September 2021 - June 2023 (Expected)**
Red River College Polytech   Winnipeg, MB
- Relevant coursework: Supervised Machine Learning, Unsupervised Machine Learning, Neural Networks and Deep Learning, Transforming Data into Databases, Python Essentials With Data Analysis, Data Management, Introduction to Artificial Intelligence
- Project highlights:
    - Built Decision Trees and Support Vector Machine (SVM) models with an accuracy of 98% to classify galaxies, quasars, and stars from 100,000 observations of space dataset.
    - Developed DBSCAN and K-means clustering models to group customers into segments for the purpose to give insurance product recommendations.
    - Developed deep learning models (CNNs and RNNs) to solve a Sudoku game
- Technical Skills: Python, R, SQL, Tableau, PowerBI, MongoDB, Spark, ROS2, AWS RoboMaker
- GPA: 4.5/4.5

Bachelor of Commerce (Hons), Major in Accounting and Finance   **May 2011 – August 2015**
University of Manitoba, Asper School of Business   Winnipeg, MB
- Relevant coursework: Financial Accounting, Managerial Accounting, Intermediate Accounting - Assets, Intermediate Accounting – Equities, Cost Accounting, Accounting Theory, Corporate Finance, Investments, Financial Markets and Institutions, Corporate Finance Theory and Practice, Financial Management Practices

Experience

Student - IT Systems Development   **January 2023 – April 2023**
Bank of Canada   Remote
- Developed and maintained the Analytics Environment and Currency Portfolio.
- Explored and evaluated new data and analytics technologies to enhance the next generation of analysis and insight.
- Acquired hands-on experience with practical applications of technologies such as Tableau, Python, SQL, and Azure.
- Created interactive data visualization dashboards and reports using Tableau.
- Utilized Python and SQL to perform data cleaning, manipulation and analysis.
- Contributed to the maintenance and development of the databases used in the department.

E-commerce Developer   **September 2021 – August 2022**
Tattogo, tattogo.com   Winnipeg, MB
- Developed, designed, prototyped, built, debugged, and maintained eCommerce solutions
- Designed textual and graphical content including logo and product illustrations for the website
- Worked frequently with Adobe PS and Canva to design custom elements, social media posts, and product videos

- Developed Brand Awareness, Increased website exposure (SEO)
- Developed online marketing and promotional strategies, optimized Google and Facebook Ads Campaign, managed social media accounts
- Set up email marketing flows, integrated Klavlyo automation solutions with Shopify

Production Manager   **May 2016 – August 2021**
TheraVape Inc.   Winnipeg, MB
- Managed and directed production processes, ensuring compliance with Quality Management Systems (ISO9001)
- Reviewed processing schedules or production orders to make decisions concerning inventory requirements, staffing requirements, work procedures, or duty assignments, considering budgetary limitations and time constraints
- Ensured products met or exceeded client expectations, and materials, labor, or equipment were used efficiently to meet production targets
- Maintained accurate and up-to-date batching database and filing system (Excel)
- Redesigned operational processes, improved training and staff utilization, and reduced the number of staff by half while sales go up by 50%
- Reduced manufacturing costs by 50%, maximized profits to the company by reducing waste and cutting unnecessary costs (QuickBooks, Excel, Financial Report)

Certification

Google Data Analytics Professional Certificate   **May 2022 – July 2022**
Google   Online
- Completed extensive six-month job-ready Google Career Certificate training within three months.
- Acquired hands-on experience with data cleaning, data visualization, project management, interpreting, and communicating data analytics findings.
- Proficient in using Tableau to transform complex data into actionable and clear insights.
- Skilled in computer programming languages such as R and a solid understanding of databases (SQL).

Skills

- **Programming Languages**: Python, HTML, CSS, JavaScript, Bootstrap, React, Node, Flask, APIs, Git
- **Data Science & Machine Learning:** Python (Pandas, Matplotlib, Numpy, Seaborn, Scikit-learn, Jupyter Notebook), R, MongoDB, Spark, TensorFlow, Keras, PowerBI, Tableau, SQL, MS Excel (VLOOKUP, pivotable, match, advanced formula)

Awards

Received award in Fermat Mathematics Contest   **2009**
University of Waterloo