Contact: tanya.yt.tan@gmail.com | 857-452-4321 | Blog | Linkedin | GitHub | Tableau Public

Tanya Tan

Business Intelligence & Data Science | Transforming data into actionable insights and business solutions

- Technical Skills: Python (PyTorch, Tensorflow, scikit-learn), SQL, Snowflake, Tableau, R, Looker, UX Research
- Additional Skills: project management, teamwork, adaptability, self-directed learning

Education & Professional Certificates

- Maser of Computer Science, Arizona State University, AZ (April 2022, expected)
- Al and Machine Learning MasterTrack Certificate, Coursera (May 2021)
- Deep Learning Specialization (2021) & Data Science Foundations using R, Coursera (2020)
- Data Scientist Nanodegree & Python for Data Science Nanodegree, Udacity (2020)
- Tableau Analyst Certificate, *Tableau* (2020)
- M.Sc. in Chemistry, *University of British Columbia*, Vancouver, BC, Canada (2012)
- B.Sc. in Chemistry, Peking University, China (2009)

Work Experience

Analyst, Sales Operations | <u>Cengage Learning</u>, Boston, MA | Oct 2020 - Present

- Establish Sales Analytics Tableau Hub from end-to-end:
 - Defining data strategies, mapping, prioritizing analytics needs, and building data architecture
 - Scoping and developing reports and dashboards (serving 700+ internal users in Sales and Marketing teams, monthly site traffic 11K+)
 - Facilitating efforts in user training and engagement
- Leverage multiple data platforms (Snowflake, Tableau, Looker, Data Warehouse, CRM) to compile and communicate meaningful insights on sales opportunities, product pricing, customer retention risks and priority decisions
- Collaborate with stakeholders in sales organization, Finance, Marketing, Product, and Data Engineering teams to shorten the path from data to value-added business solutions
- Streamline BI reporting processes for weekly sales performance and digital product usage reviews
- Serve as the data expert and provide insights on reporting improvement, applying rigors in analytical methods and user research, and advanced statistical modeling using SQL, Python, and Tableau
- As a a team, drive operational excellence, sales enablement and customer success through data-driven decision support and process optimization

Research Analyst, Institutional Research | Langara College, Vancouver, Canada | Dec 2018 - Oct 2020

- Developed interactive Tableau dashboards and reports to support senior management's strategic planning
- Built efficient and reproducible analytics workflows using Tableau, R, Excel, and MS Access
- Managed regular reports of student applications, enrollment, academic outcome and workload

- Conducted statistical analyses to inform course planning, recruitment and marketing strategies
- Analyzed surveys related to program reviews and other organization-wide initiatives

Education Specialist, Chemistry | *University of British Columbia*, Vancouver, Canada | 2017 - 2018

- Designed and led UX research to inform design strategy of an online learning app Alchemy
 - User experience surveys, interviews, stakeholder sessions
 - Concept testing and UX evaluations

Chemistry Lab Instructor | Kwantlen Polytechnic University, Surrey, Canada | 2016 - 2017

Teaching Lab Specialist | University of Illinois, Springfield, IL | 2013 - 2016

Selected Projects

Optimizing Starbucks App Offers with Machine Learning Algorithms | GitHub Repository | Blog Post

• Predicted customers' response to in-app offers with 73% accuracy using a random forest model

Financial Performance Dashboard | Blog

• Built a mobile-friendly interative dashboard with key financial measures e.g. profit & loss, operating expenses and gross sales (prototype with simulated data)

Digital Customer Retention Dashboard (Internal dashboard at Cengage Learning)

• Provided insights into customized customer retention strategies based on risk segments, customer engagement and potential revenue.

Sales Incentive Dashboard (Internal dashboard at Cengage Learning)

KPI dashboard with usage trend, and sales perofrmance measures by territory and by product

Predicting Collisions using a Simple Neural Network Model | Blog Post

• Trained robots to prevent collisions in a simulated environment with 99%+ accuracy, using artificial neural networks

Boston Airbnb Rental Data Analysis | Github Repository | Blog Post

• Highlighted geographical and seasonal trends in pricing and availability of Airbnb Rentals

Annual Update Dashboard for Quality Assurance and Process Audit

• Built an executive dashboard with 360-degree views of marketing demand and department performance

Data-Enabled Pedagogy and Technology for Critical Thinking and Decision Making Skills | Poster

• Co-developed a pedagogical online app <u>Alchemy</u> to develop learners' critical-thinking skills.

<u>List of Publications on Google Scholar</u>