VIRGINIA CHEN

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github.com/aleysia ⌂

➤ Full-stack data scientist with 13+ years of experience

➤ Designed the statistical analysis plan for an academic clinical trial in collaboration with domain experts and stakeholders

➤ Revamped and deployed a critical production service for a customer, winning a "customer service excellence" award

WORK EXPERIENCE

Senior Data Scientist   *2021 – Present*
Data Scientist
Acerta Analytics Solutions Inc. · Remote (HQ: Kitchener, ON, Canada)
- ☙ Derive actionable business insights from manufacturing and vehicle data
- ☙ Develop predictive models to improve operational efficiency and decision-making
- ☙ Build, deploy, and support solutions in production

Co-founder, Lead Data Scientist   *2018 – Present*
Pawsperity Biotechnologies Inc. · Vancouver, BC, Canada / Remote
- ☙ Advise on the design, analysis, and validation of internal studies
- ☙ Train machine learning models, create visualizations, and build web apps
- ☙ Participate in strategic planning and design discussions

Senior Data Scientist   *2009 – 2021*
Data Scientist / Statistician
Data Mining Analyst
PROOF Centre of Excellence · Vancouver, BC, Canada
- ☙ Translated clinical questions into analytics, and results into interpretable insights
- ☙ Developed and executed statistical analysis plans for in-house and fee-for-service projects
- ☙ Performed data cleaning and pre-processing, exploratory analysis, statistical analysis, feature selection, modelling, validation, prediction, visualizations and reporting
- ☙ Assisted with the writing of grants, proposals, and 20+ published papers
- ☙ Organized and facilitated a weekly meeting for problem-solving and knowledge sharing

TECHNICAL SKILLS

Languages	Python · R · SQL
Frameworks	TensorFlow2 / Keras · scikit-learn · pandas/numpy
Data science & machine learning	classical statistics · supervised and semi-supervised modelling · survival (time-to-event) analysis · clustering · anomaly detection
Visualization	ggplot2 · seaborn · Plotly/Dash · HTML · CSS

EDUCATION

MA Biostatistics   *2007 – 2009*
School of Public Health, University of California, Berkeley · Berkeley, CA, USA

BSc Combined Honours in Computer Science and Statistics *2002 – 2006*
University of British Columbia · Vancouver, BC, Canada