

# Krish Lakshmi Narayanan

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## Professional Summary

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Data Scientist and Analytics Engineer with 3+ years of experience developing high-performing ETL pipelines, Machine Learning solutions and conducting data Experiments in fast-paced fintech and e-commerce environments. Proven expertise in advanced SQL, Python, and Apache Spark with a strong product approach to converting raw data into actionable business insights. Working towards democratizing finance through data-driven decision making and cross-functional collaboration and quantitative data modeling.

## Education

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**Honors Bachelor of Mathematics Co-op** – University of Waterloo

- Double major in **Computational Mathematics** and **Statistics** and Minor in **Economics**
- Attained **Dean's Honors** in Statistics and Computational Mathematics; awarded **Term Honors distinction** in 8 study terms
- Relevant coursework include – **Neural Networks, Financial Modeling, Stochastic Processes, Advanced Regression, Classification, and Data Structures and Algorithms, Experimental Design**

## Technical Skills

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**Data Transformation & Analytics:** Advanced SQL, dbt, LookML, ETL/ELT pipelines, Python (Sklearn, Pandas, NumPy, Flask), R, Apache Spark

**Business Intelligence & Visualization:** Looker, Power BI, Tableau, ThoughtSpot

**Data Pipeline & Orchestration:** Apache Airflow, Dagster, FiveTran, multi-step ETL workflows

**Cloud & Distributed Data Platforms:** AWS (S3, Athena), Google BigQuery, Snowflake, MongoDB, PostgreSQL

**Machine Learning & Analytics:** Regression, Classifiers, LightGBM, XGBoost, Neural Networks, A/B testing, experimental design, Causal Inference

**Development & Version Control:** Git, CI/CD pipelines, Docker, Kubernetes, command-line tools

**Programming Languages:** Python (Flask, PyTorch, TensorFlow), R, JavaScript (React)

**Testing & Quality Assurance:** Unit testing for data products, data validation frameworks

## Professional Experience

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**Founding Software Engineer – ModuRisk** – Waterloo, Canada – (April 2025 – Present)

- Elevated platform scalability by architecting from concept to MVP by creating a full-stack modular construction risk management system leveraging **Flask, React, MongoDB**, enabling actionable risk insights for 100+ construction projects
- Accelerated operational decision-making by designing and deploying autonomous analytics workflows and cumulative risk scoring improving stakeholder visibility across multiple project phases
- Enhanced data-driven collaboration by building a **NoSQL/SQL** hybrid database schema, facilitating seamless analytics for users, factories, and projects, and leading to a 30% increase in risk mitigation efficiency

**Data Analyst and Data Engineer – 1Password** – Toronto, Canada – (May 2024- August 2024)

- Boosted website interaction rates by 5% through production deployment of **LightGBM** and **Logistic Regression** models, collaborating with product and engineering teams to implement robust **A/B testing** frameworks across 25 million data points
- Achieved 100% data integrity during analytics migration by constructing ETL pipelines for over 2 billion **Google Analytics** records using **Python, S3, DBT**, and **Amazon Athena**, driving high-fidelity FinOps reporting
- Enabled rapid marketing optimization by delivering 20+ **LookML** changes and developing key dashboards in **Looker**, empowering data-centric decisions for the marketing team
- Improved experimental analysis throughput by creating a **Minimum Detectable Effect** Calculator, and analyzing 10+ business-critical experiments and optimizing hypothesis-driven decision-making

**Data Analyst – Super.com** – Toronto, Canada - (January 2023 – April 2023)

- Increased net revenue by over 5% in key segments by deploying pricing optimization algorithms and **A/B testing** on SuperTravel and ReservationStays products, leveraging **Python** and **SQL** for experiment design and analysis
- Unlocked targeted growth by identifying 4 high-value customer segments through advanced segmentation modeling, presenting actionable insights to 10+ stakeholders and driving revenue-focused strategy shifts
- Streamlined analytics delivery by automating 15+ data pipelines and visualizations using **SQL, Python, Airflow**, and **Fivetran**, allowing timely, data-backed business and product decisions

**Small Business Data Analyst – Scotiabank** – Toronto, Canada - (January 2022 – August 2022)

- Influenced national promotion and salary decisions for 600+ advisors by engineering a linear programming model in **Excel**, driving objective performance assessments across all Canadian regions
- Strengthened analytics platform reliability by executing 25+ strategic analyses and weekly data refreshes using **R** and **SQL**, producing 8 custom **Power BI** dashboards for the Small Business Analytics department
- Increased advisor platform usage by 15% through targeted engagement initiatives, including 10 Workplace posts, 3 training videos, and an internal website with 20+ resources, advancing digital transformation adoption

**Data Scientist – Max Bupa Health Insurance** – Gurugram, India – (February 2021- August 2021)

- Raised customer retention rates by 7% by constructing a **logistic regression** model in **R** and **Excel**, analyzing onboarding data for over 100,000 customers and informing targeted retention campaigns
- Reduced fraudulent claim losses by conducting a cost-benefit analysis in **Excel** on 1,500 claims, enabling analytics-based marketing and retention strategies that improved operational efficiency