KAPIL IYER

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EDUCATION

University of Waterloo, Canada **Aug 2029**

Bachelor of Honors Mathematics Co-op (President's Scholarship of Distinction)
Specialization: Applied Math - Scientific Machine Learning
Minor: Statistics and Computing
Relevant coursework: Calculus I, II, Lin Algebra, Data Structures, Probability, Algorithm Design, Data Abstraction

EXPERIENCE

Dazia Consulting Inc. **Nov, 2025 - Present**
ML Project Engineer *Kitchener, Canada (Remote)*
Python, React, Node.js, NLP, Flask/Django, TensorFlow/PyTorch, scikit-learn

- Developing **NLP AI Chatbot** question generator using **Gemini API, spaCy and Hugging Face Transformers** on **10,000+** pages of financial certification content (**CSC, IFIC**), generating **5,000+** practice questions targeting **85%+ accuracy**
- Building full-stack study platform with **React** and **Node.js**, implementing **freemium** model with authentication and analytics across 8 topics, targeting **8% paid conversion rate** from **100+ beta users**
- Training ML models with **TensorFlow** and **PyTorch**, engineering feature extraction pipeline from financial text, optimizing inference to less than **2 seconds** per question generation for production deployment

UW Data Science Club **Sep, 2025 - Present**
Outreach Coordinator *Waterloo, Canada*

- Coordinate corporate partnership outreach for **Canada's largest student-run datathon (CxC 2026)**, engaging **30+** potential sponsors to secure funding and mentorship for **200+ participants**
- Utilized **Apollo.io** and professional B2B outreach tools to identify and engage target companies, achieving a **25% response rate** through strategic messaging and personalized proposals
- Collaborate with CxC organizing team and past sponsors (**UW Math Endowment Fund, Hugging Face, Techyon**) to develop sponsor activation strategies, managing communications and deliverables across 3 cross-club partnerships

TECHNICAL PROJECTS

ML-Powered Stock Market Analysis Platform **Oct 2025 - Present**
Python, pandas, NumPy, scikit-learn, matplotlib, Streamlit, Seaborn, Plotly *In Development*

- Developing machine learning platform analyzing **10,000+ stock tickers** with ensemble classification and regression models (**Linear Regression, Random Forest Regressor/Classifier, Ridge Regression**), targeting **60%+ directional** accuracy to democratize institutional-grade quantitative analysis for retail investors
- Implementing automated data pipeline processing **2,500+** daily data points per stock via **yfinance API**, engineering **8** technical indicators (**RSI, MACD, Bollinger Bands, moving averages**) with time-series preprocessing for model training and validation
- Integrating **Bloomberg Terminal** for institutional-grade data access, deploying **Streamlit** dashboard with real-time analysis capability (**less thab 30s per ticker**) and automated performance tracking across portfolio metrics

SKILLS & CERTIFICATIONS

Programming Languages:	Python, JavaScript, Racket, C, R, SQL, LaTeX, HTML, CSS
ML/Data Science:	TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, NLP (spaCy, Gemini API, Hugging Face)
Web Development:	React, Node.js, Flask, Django
Visualization:	Matplotlib, Seaborn, Plotly, Streamlit
Tools:	Bloomberg Terminal, Git/Github, VS Code
Certifications:	Bloomberg Finance Fundamentals (BFF), Bloomberg Market Concepts (BMC), Bloomberg Spreadsheet Analysis (BQL)
Languages:	English, Hindi, Urdu, Marathi, Punjabi, Tamil, French (conversational)