

# APPLIED ARTIFICIAL INTELLIGENCE & FINANCIAL ANALYTICS

## Dual Postgraduate Certificates

**September 2024**

**Durham, Ontario, Canada**

Complete this dual program, earn two postgraduate certificates in just 20 months, and graduate with the cutting-edge skills today's employers are looking for.

[trentu.ca/aaifa](https://trentu.ca/aaifa)



# Innovate and Excel

## AI & FINANCIAL ANALYTICS AT TRENT

Immerse yourself in the dynamic fields of Applied Artificial (AI) Intelligence and Financial Analytics, exploring interdisciplinary topics related to today's cutting-edge technologies.

In this unique dual postgraduate certificate program – open to all students who hold an undergraduate degree – you will simultaneously take courses from both Trent's Applied Artificial Intelligence and Financial Analytics programs to gain practical knowledge and skills in sought-after career fields most relevant to today's competitive career landscape.

Our Applied Artificial Intelligence course focus on areas such as fundamental AI concepts, basic computer programming, machine learning algorithms, statistics, information systems, and the broader implications of AI on history, ethics, society, and politics. Through this program, you will gain a deeper understanding of AI, as well as practical insights on implementing this technology in your professional career and beyond.

In Canada's rapidly expanding financial industry, there is a growing demand for skilled and innovative professionals prepared to lead the future of finance. The Financial Analytics courses are designed to equip you with both economic reasoning and the computational skills necessary to address cutting-edge challenges in the areas of investments and financial markets. The comprehensive curriculum encompasses a wide range of topics, from the fundamentals of financial modeling, to in-depth explorations of economic and financial market theories.

This dual program gives you the career-boosting advantage of combining your knowledge and experience in AI and Financial Analytics to create a unique and high-value skillset.

This comprehensive dual-certificate program is exclusively offered at Trent's Durham campus in the Greater Toronto Area, making it the perfect location for high-value job opportunities post-graduation. You will study at the modern new Trent Durham Advanced Learning Centre (ALC) in downtown Oshawa, which features a state-of-the-art computer lab, and is surrounded by convenient amenities. The ALC is also designed with your success in mind, providing on-site support services including academic advisors, career support, library staff, and Trent International.

**Admission Requirements:** This program welcomes applications from individuals holding an Undergraduate degree from an accredited university.

## CAREER SUPPORTS AND OPPORTUNITIES

- Access Careerspace services to be job-ready, such as resume writing, one-on-one career counseling, mock interview preparation, virtual and in-person workshops, career fairs, and networking opportunities.
- Students gain access to the Student Experience Portal (SEP) for career exploration, job postings, career readiness resources, and appointment bookings with university support staff.
- AI is the new cornerstone of competitiveness, and Durham Region has emerged as a place to hire global AI talent with companies like General Motors, Ontario Power Generation, ConnexHealth and People & Places Inc. (Source: Invest Durham)
- As of December 2023, Durham Region was home to 24,800 employees in the Finance sector, ranking third in the top five highest growth industries. (Source: Durham Workforce Authority)
- **AI and Machine Learning:** There is a strong demand for professionals skilled in AI algorithms, neural networks, data science, cloud computing, and natural language processing. Deloitte reported a substantial investment in Canadian AI research and development, reflecting the growing use of AI across industries like healthcare, fintech, and autonomous vehicles. The World Economic Forum predicts a 40% increase in AI specialists by 2027, with these jobs offering competitive salaries.  
[trentu.ca/careerspace/](https://trentu.ca/careerspace/)

## DURHAM REGION, ONTARIO, CANADA



Durham Region is the largest municipal region within Ontario, made up of eight cities and townships. Located on the east side of Greater Toronto Area (GTA) and nestled between Lake Ontario, Lake Simcoe and Lake Scugog, Durham is where the excitement of the city and the tranquility of countryside meet. With a current population of nearly 700,000, the region is booming with an expected population of more than 1.3 million by 2051. In addition, you are on the doorstep of Canada's largest city, and primary financial hub, where an abundance of employment opportunities are always available.



## RESUME BOOSTERS

- Develop and implement your own AI information systems, showcasing technical proficiency in AI and machine learning using neural networks and regression models.
- Gain practical knowledge in applying AI to challenges in investments and financial markets to visualize large datasets and extract meaningful insights.
- Benefit from Trent University Durham GTA's central location in the heart of Oshawa in the Durham Region, named one of the world's Top7 Intelligent Communities
- Acquire applied knowledge in programming languages such as C#, Python, and R, showcasing proficiency in both AI and financial analytics to solve complex problems.
- Learn to clearly communicate complex technical concepts to non-technical stakeholders and decision-makers.
- Collaborate with faculty experts, building a broad knowledge base in AI and financial analytics for holistic problem-solving.

## TUITION

### Post-graduate Certificate (Per Academic Year)

Tuition	\$20,265
Ancillary & Levy Fees	\$2,945
Housing & Meals	\$9,000 - \$14,100
Books & Supplies	\$1,000
Personal	\$1,500 - \$2,000
<b>Total</b>	<b>\$32,951 - \$38,551</b>

## POPULAR COURSES

- Programming for Computer Science (COIS 1020H)
- Philosophy of AI (PHIL 3270H)
- Introduction to Data Science (COIS 1400H)
- Options and Futures (FINA 4101H)
- Non-Calculus Statistics I (MATH 1051H)
- Portfolio and Risk Management (FINA 4102H)
- Human-Computer Interaction (COIS 3560H)
- Applied AI and Machine Learning (COIS 3550H)

## PGWP FOR INTERNATIONAL STUDENTS

After completing a 2-year certificate program, you might be eligible for a 3-year post-graduation work permit (PGWP).

## CAREER PATHS

- AI & Financial Analytics Specialist
- Investment Strategist
- Data Science Entrepreneur
- Financial Technology Innovator
- Data Analyst/Data Science
- AI Product Manager
- Quantitative Analyst
- Financial Analyst with AI Focus
- Machine Learning Development
- Risk Management Specialist
- Algorithmic Trader/Market Analyst
- Consultant in AI and Finance
- Customer Success Manager in Finance
- Regulatory Compliance Analyst

## APPLY NOW

- [trentu.ca/aaifa](https://trentu.ca/aaifa)
- +1 705 748 1314
- [international@trentu.ca](mailto:international@trentu.ca)

## The Trent University Durham GTA Advanced Learning Centre in Downtown Oshawa

At Trent University Durham Greater Toronto Area (GTA), you will have the opportunity to immerse yourself in our supportive and inclusive environment, where modern facilities and a vibrant community of scholars foster academic excellence and cultural exchange.

Whether you are studying in one of our popular postgraduate certificate programs, our prestigious Master of Management, or our ESL courses, your courses will be held in the heart of bustling downtown Oshawa at our bright and modern academic facility at 11 Simcoe Street North.

Get ready to embark on an exciting learning experience and discover a world of possibilities here at Trent University Durham GTA!

[trentu.ca/futurestudents/advanced-learning-centre](https://trentu.ca/futurestudents/advanced-learning-centre)



Welcome! We are thrilled to have you as part of our diverse and vibrant community of advanced learning professionals. As you embark on this exciting journey of taking your education to new heights, we want you to know that you are not alone. We understand that starting anything new can be both exhilarating and challenging, but rest assured, we are here to support you every step of the way."

**Dr. Scott Henderson**  
Dean and Head of Trent University  
Durham GTA

## CONNECT WITH US



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TrentUInternational



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