

17 Rosemont Heights Dr. Rosemont ON LON1R0 | 705-791-3127 | kyjack66@gmail.com

[Date]

[Hiring Manager's Name]

[Company Name]

[Company Address]

[City, Province, Postal Code]

Subject: Application for [AI Field Placement/Internship Position]

Dear [Hiring Manager's Name],

I am excited to apply for the [AI Field Placement/Internship Position] at [Company Name]. As a third-year student in the Artificial Intelligence Development program at Durham College, I am eager to apply my machine learning, deep learning, and data analytics skills professionally. With a strong passion for AI development and problem-solving, I am confident in my ability to contribute to your team while expanding my industry experience.

Throughout my academic journey, I have gained proficiency in Python, neural networks, and multiple machine learning algorithms, including k-means clustering, decision trees, and logistic regression. I have experience working with frameworks like TensorFlow and PyTorch and tools like GitHub, VS Code, and Jupyter Notebook. My technical background includes data visualization, model optimization, and automation, making me well-equipped to assist in AI research and development projects.

One of my key strengths is developing AI models that solve real-world problems. For example, in my recent house price prediction project, I built a deep learning model that analyzed real estate data, applied feature engineering, and improved prediction accuracy using hyperparameter tuning. In my computer vision assignment, I also worked on image classification using convolutional neural networks (CNNs), which enhanced my understanding of data preprocessing and model evaluation. These experiences have honed my ability to design, implement, and refine AI-driven solutions, making me a strong candidate for this role.

I am eager to bring my technical skills and problem-solving abilities to [Company Name] and contribute to innovative AI projects. I welcome the opportunity to discuss how my background aligns with your team's needs. Please feel free to contact me at kyjack66@gmail.com or 705-791-3127. Thank you for your time and consideration—I look forward to your response.

Sincerely,

Kyle Jackson

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Highlights of Skills

- Proficient in Python with three years of experience and some experience in R and Java.
- Familiarity with multiple algorithms, including k-means, linear regression, logistic regression, random forest, k-nearest neighbours, decision trees, and naive Bayes.
- Proficient in various programming platforms, including VS Code, PyCharm, and GitHub.
- Proficient in neural networks, deep learning, robotics, and data visualization.
- Extensive experience in automotive repair and maintenance, including engine rebuilding, tuning, electrical systems, and customization.

Education

Durham College | 2022 - 2026

Bachelor of Honours Artificial intelligence.

- **Relevant Coursework:** Neural Networks, Robotics, Machine Learning, Cloud Computing
- **Projects:** ML classification & forecasting models, deployed via FastAPI, Streamlit, and Google Cloud

Work Experience

Simcoe Parts Service | Summer Student Associate | May 2024 - August 2024 | Alliston, ON

Collaborated in a technical environment to troubleshoot and resolve operational issues, managing time-sensitive tasks while developing strong problem-solving and analytical skills applicable to AI system optimization and project support.

Durham College | Athletics Control Centre Monitor | Sept 2023 - April 2024 | Oshawa, ON

Collaborated in a team environment to efficiently set up equipment and manage time-sensitive tasks to support AI projects while developing problem-solving and teamwork skills.

Town of New Tecumseth | Pool Cashier | May 2022 - Sept 2022 | Alliston, ON

Projects

- **Facial Recognition API**
A real-time facial detection web API built using FastAPI, OpenCV, and Google Cloud Platform. Deployed with Docker and Haar Cascade classifiers to identify faces through camera streams with responsive error handling and cloud-based accessibility.
Stack: FastAPI, OpenCV, Docker, GCP
- **House Price Prediction App**
A machine learning application that predicts house prices using a neural network trained on real estate data. Built-in Python with TensorFlow and Pandas is enhanced with a Streamlit interface for user-friendly deployment.
Stack: TensorFlow, Pandas, Scikit-learn, Streamlit
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