

# Aradhya Marya

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## Professional Summary

Honors Bachelor of Artificial Intelligence student with hands-on experience in machine learning, data analysis, and neural networks. Skilled in developing academic projects across natural language processing (NLP) and computer vision, with a focus on translating research into practical, real-world solutions. Proficient in Python, modern ML frameworks, and scalable deployment tools, with a strong interest in roles such as machine learning engineering, data science, or AI research. Passionate about building explainable and impactful AI systems that drive innovation and professional growth.

## Education

**Durham College, Oshawa, ON**

**Sept 2023 – Present**

*Honours Bachelor in Artificial Intelligence*

**Rigveda International School, India**

**2015 – 2022**

*High School Diploma*

## Professional Experience

**Walmart Canada, Whitby, ON**

**March 2024 – Present**

*Produce Associate*

- Assisted customers with product selection and ensured compliance with freshness standards.
- Enhanced time management and problem-solving skills under high-volume conditions.
- Collaborated with team members to maintain store operations and daily targets.

## Volunteer Experience

**Durham College, Oshawa, ON**

**2023 – 2024**

*Student Volunteer*

- Supported planning and execution of campus events, enhancing organizational and teamwork skills.

## Projects

**English → French Real-Time Translator**

*Developer / Researcher*

- Built a full-stack translation application with a FastAPI backend and Streamlit frontend, enabling real-time English to French translation.
- Integrated Google Translate API as the core translation engine, and computed BLEU score (using NLTK) & Perplexity (using Hugging Face) to evaluate translation quality.
- Employed SHAP Beeswarm plots for interpretability / explainability of translation model outputs.
- Added request monitoring metrics (response time, memory usage, request count) to ensure performance tracking.

- Used Pydantic models for input/output validation, and exposed API docs via Swagger UI.
- Containerized the app with Docker / Docker Compose for reproducible deployment.

## **Skills**

- Programming & Libraries: Python, SQL, TensorFlow, PyTorch, Pandas, NumPy, Scikit-learn
- AI & Machine Learning: Neural Networks, Data Analysis, Computer Vision, Natural Language Processing.
- Tools & Deployment: Git/GitHub, FastAPI, Docker, Data Visualization (Matplotlib, Seaborn)
- Soft Skills: Analytical Thinking, Adaptability, Team Collaboration