

# Fernando Barbosa Rodrigues, Machine Learning Engineer

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## PROFILE

Machine Learning Engineer with a passion for AI and ML. Experienced in Python, PyTorch, and Azure AI Studio, with a focus on training new AI features, such as sign language recognition and improving LLMs. Skilled in data analysis, TensorFlow, and deep learning. Consulted on a project to develop new data processing systems, resulting in a 27% increase in the AI's answer accuracy.

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## EMPLOYMENT HISTORY

Apr 2024 — Oct 2024	<b>Machine Learning Engineer, GENIE AI</b>	Canada, Toronto - Remote
	<ul style="list-style-type: none"><li>• Training new features for the company, such as sign language recognition.</li><li>• Improving LLMs answers using a larger training data set with semantic router to avoid hallucinations on the LLM response.</li><li>• Experience using Azure AI Studio: feeding data to an LLM, making the API connection end-to-end, and ensuring live users can view new implementations.</li><li>• Analyzing and working on the evaluation of several LLM models to test the performance metrics, METEOR, and F1 SCORE.</li><li>• Collaborating with cross-functional teams to develop a new data processing system for RAG and Semantic Routes, resulting in a 27% increase in answer accuracy.</li></ul>	

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## INTERNSHIPS

Nov 2023 — Mar 2024	<b>AI Researcher Internship</b>	Canada, Toronto - Remote
	<p>As an AI researcher, I approached the academic side of research by benchmarking LLMs and building architectures, where I could implement my research and document how the code performed.</p> <ul style="list-style-type: none"><li>• Programming in Python and using the PyTorch library to assist the ML team and coordinate projects for the improvement of the AI.</li><li>• Implementing a comprehensive research plan to explore emerging LLM technologies, resulting in the discovery of 3 new LLMs for testing and a 40% increase in answer accuracy.</li></ul>	

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## EDUCATION

Feb 2022 — Dec 2025	<b>Bachelor's Degree in Computer Science, Universidade Estácio De Sá</b>	Brazil, Rio de Janeiro - On site
	<p>Pursuing my Computer Science Bachelor, where I am faced with a variety of interesting classes to improve my skills and projects to help out local business owners.</p>	
Aug 2021 — Sep 2022	<b>High School Diploma, Innisdale Secondary School</b>	Canada, Barrie - On Site
	<p>I spent one year in Canada to finish high school and get my diploma. While in Canada, I was faced with challenges, such as speaking exclusively in my second language, experiencing and engaging with a new culture, and developing my independence.</p>	

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## SKILLS

Data Analysis	Skillful	SQL	Expert
Tensorflow	Expert	Machine Learning	Expert
Deep Learning	Expert	Python	Expert

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## COURSES

Sep 2024 — Oct 2024	<b>Introduction to Transformer Models for NLP, LinkedIn</b>
Jun 2023 — Jun 2024	<b>Scalable &amp; Stable Algorithm Concept's, Universidade Estácio de Sá</b>
Jul 2024 — Nov 2024	<b>Deep Learning: Model Optimization and Tuning, LinkedIn</b>

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## LANGUAGES

Portuguese	Native speaker	English	Highly proficient
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