

## Job Posting:171788 - Position: F25 Machine Learning Scientist Intern 171788B

<b>Co-op Work Term Posted:</b>	2025 - Fall
<b>App Deadline</b>	08/15/2025 09:00 AM
<b>Application Method:</b>	Through Employer Website
<b>Posting Goes Live:</b>	08/07/2025 10:30 AM
<b>Job Posting Status:</b>	Approved

### ORGANIZATION INFORMATION

<b>Organization</b>	Synthesis Health Inc.
<b>Address Line 1</b>	1285 West Pender Street, Suite 200
<b>City</b>	Vancouver
<b>Postal Code / Zip Code</b>	V6E4B1
<b>Province / State</b>	BC
<b>Country</b>	Canada

### JOB POSTING INFORMATION

<b>Placement Term</b>	2025 - Fall
<b>&lt;b&gt; Job Title &lt;b&gt;</b>	F25 Machine Learning Scientist Intern 171788B
<b>Position Type</b>	Co-op Position
<b>Job Location</b>	Vancouver, BC
<b>Country</b>	Canada
<b>Duration</b>	4 months
<b>Work Mode</b>	Fully Remote
	To be confirmed
<b>Salary Currency</b>	CAD
<b>Salary</b>	Salary Not Available, 0 Major List
<b>Salary Range \$</b>	\$20 - \$25 per hour
<b>Job Description</b>	

#### Who We Are

We're a mission and values driven company with tremendous dedication to our customers. Our 100% remote team, spread internationally in Canada, the US, and beyond, is dedicated to a common goal - to revolutionize healthcare through innovation, collaboration, and commitment to our core values and behaviors.

At Synthesis Health, we are committed to transforming healthcare through innovative technology, leveraging AI/ML and scalable, native cloud architectures to build solutions that make a meaningful difference. Our engineering team is at the heart of this mission, and we are looking for individuals who are passionate about building secure, scalable, and compliant systems.

#### About the Opportunity

Synthesis Health is looking for Machine Learning Scientist students who are interested in applying their academic knowledge to solve real-world healthcare solutions. As a Machine Learning Scientist intern you will work with a dedicated team, invested in your professional development, to design, develop and deploy machine learning models.

#### Key Responsibilities:

##### Design and Develop ML Models.

- Collaborates with team members to define objectives for AI systems, including GenAI and LLM-based applications.
- Designs and develops machine learning models using structured and unstructured data (image, tabular, and text), with a strong

focus on large-scale text data.

- Selects appropriate datasets, data representation methods, and pre-trained models (e.g., GPT, LLaMA) to fine-tune or build generative applications.
- Builds and integrates LLM-powered components, such as text summarizers, report generators, chat agents, or document classifiers.
- Follows team procedures for documenting all steps in the GenAI development lifecycle.
- Utilizes Git for version control, collaboration, and documentation of both ML and LLM workflows.

#### **Deploys ML Models.**

- Conducts experiments and evaluations to assess ML and LLM model quality, using both traditional metrics and domain-specific evaluations (e.g., hallucination rate, reasoning score).
- Fine-tunes foundation models (e.g., OpenAI, Cohere, open-source LLMs) to improve performance for specific use cases.
- Collaborates with MLOps and engineering teams to deploy and monitor GenAI pipelines using modern deployment frameworks.
- Uses MLOps and LLM Ops tools (e.g., LangSmith, MLflow) to track experiments and optimize models

#### **Communication and Collaboration.**

- Participates in daily team huddles and scheduled department meetings.
- Shares progress on GenAI/LLM-based features and flags technical risks or limitations early.
- Works collaboratively with team members, internal and external stakeholders.
- Participates in discussions, offers solutions, and asks questions to ensure a thorough understanding of assignments.

#### **Research and Knowledge Management.**

- Actively researches advances in foundation models, transformers, and GenAI architectures.
- Keeps up with evolving tools and techniques for fine-tuning, RAG, prompt engineering, and model evaluation.
- Presents findings and proof-of-concepts related to GenAI applications in medical, scientific, or enterprise domains.
- Translates research into practical improvements for model development.

#### **Documentation.**

- Provides the required input to the documentation process needed for compliance and regulatory purposes

#### **•Compensation and Benefits**

- Compensation is paid in the currency of the country where the individual is hired. For Canadian applicants, the salary range is \$20-\$25 per hour CAD.
- Other benefits include but not limited to: Medical, Dental, Vision, "Use as needed" vacation policy, and participation in our employee option program. .

### **Job Requirements**

#### **About the Right Candidate**

You can work in a fast-paced environment and juggle multiple projects with overlapping deadlines.

#### **Qualifications**

- Bachelor's degree in a relevant field.
- Academic or industry experience in machine learning, including supervised/unsupervised learning, deep learning, and GenAI.
- Hands-on experience with LLMs (e.g., GPT-4, LLaMA, Claude) and familiarity with tools like LangChain, Flowise, or Hugging Face Transformers.
- Pursuing an advanced degree with academic studies in machine learning techniques including supervised and unsupervised learning, deep learning, reinforcement learning, etc.
- Strong programming skills in Python. Experience with PyTorch, TensorFlow, or other relevant ML/LLM frameworks is a plus.
- Understanding of RAG workflows, fine-tuning techniques, and prompt optimization.
- Ability to communicate with internal and external stakeholders.
- Strong critical thinking skills.

You will adhere to our company's values and behaviors and incorporate them in your interactions with colleagues and customers.

Values:

1. Clinical service first.
2. Collaborate with our customers.
3. Listen, respect, learn.
4. Innovate to excel.

Behaviors:

1. Be nice.
2. Be creative.
3. Be honest.
4. Be helpful.

#### **Citizenship Requirement**

N/A

## APPLICATION INFORMATION

**Application Procedure** Through Employer Website

**Cover Letter Required?** Yes

### Special Application Instructions

**Application Link:** [https://job-boards.greenhouse.io/synthesishhealth/jobs/4594883005?gh\\_src=zrim06xr5us](https://job-boards.greenhouse.io/synthesishhealth/jobs/4594883005?gh_src=zrim06xr5us)

Please click the "I intend to apply to this position" button on SCOPE and also submit your application via the employer's website.

Applications are accepted on a rolling basis and the posting may be expired at any time by the employer as submissions are received.

Students should submit their applications as soon as they are ready.