Job Title: Machine Learning Internship

Company: Datarobot

Location: Boston, MA (Remote option available)

Duration: 12 weeks (June 1, 2023 - August 25, 2023)

Hours: Full-time, 40 hours/week

Application Deadline: May 10, 2023

About DataRobot.:

DataRobot is a leading technology firm specializing in artificial intelligence, machine learning, and data science solutions. Our mission is to create innovative, cutting-edge solutions that empower businesses to optimize their processes, drive growth, and stay ahead of the competition. We are committed to providing a challenging and dynamic work environment that fosters personal and professional growth.

Position Overview:

We are currently seeking highly motivated and passionate individuals for a Machine Learning Internship within our Research and Development team. As a Machine Learning Intern, you will be working on real-world problems, collaborating with experienced professionals, and contributing to the development of our AI-driven solutions. This is an excellent opportunity to gain valuable hands-on experience in a rapidly growing industry.

Key Responsibilities:

- Assist in the design, development, and implementation of machine learning algorithms and models for various applications
- Collaborate with cross-functional teams to identify, analyze, and interpret data patterns and trends
- Contribute to research on state-of-the-art techniques and methodologies in machine learning and artificial intelligence
- Help in the development and validation of models through testing and experimentation
- Document findings, present results, and make recommendations for future improvements
- Participate in team meetings and provide progress updates on assigned tasks

Qualifications:

- Currently enrolled in a Bachelor's or Master's program in Computer Science, Engineering, Mathematics, or a related field with a focus on Machine Learning or Artificial Intelligence
- Strong programming skills in Python, R, or other relevant languages
- Familiarity with machine learning frameworks such as TensorFlow, PyTorch, or Keras
- Knowledge of data processing and analysis techniques (e.g., data cleaning, feature extraction, etc.)
- Excellent problem-solving and critical thinking skills
- Strong communication and teamwork abilities
- Self-motivated with a genuine interest in machine learning, AI, and data science

How to Apply:

Interested candidates are requested to submit their application package, including a cover letter, resume, and a copy of their most recent transcript, to hr@datarobot.com with the subject line "Machine Learning Internship - Your Full Name". We thank all applicants for their interest; however, only those candidates selected for an interview will be contacted.
DataRobot Technologies Inc. is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.

DataRobot Inc.
225 Franklin St, 13th Floor
Boston, MA 02110

Dear Hiring Manager,

I am writing to express my interest in the Machine Learning Internship position at DataRobot, as advertised on your website. As an enthusiastic and highly skilled individual with a strong background in programming, data science, and a unique experience in machine learning within the field of ophthalmology, I am confident in my ability to contribute to the innovative projects at DataRobot and further develop my skills in the field.

During my collaboration with a ophthalmologist, I successfully applied machine learning techniques to assist in diagnosing eye diseases, such as diabetic retinopathy, glaucoma, and macular degeneration. My work involved using OpenCV to compare eye retinal images, showcasing my adaptability in utilizing various machine learning techniques for diverse applications.

As part of a collaborative team, I have experience in designing and building microservices-based web applications using Node.js and JavaScript. I am proficient in creating cloud-based storage systems, employing technologies such as EKS, GKE, Kubernetes (K3S), and Docker, as well as using Grafana for observability, data visualization, and tracking metrics and logs over time.

Aside from my practical experience, I have a strong academic background in Computer Science, with an emphasis on Machine Learning and Artificial Intelligence. I am adept at programming in Python, R, and other relevant languages and have hands-on experience with machine learning frameworks like TensorFlow, PyTorch, and Keras.

My ability to learn quickly, work effectively in a team, and communicate complex concepts to both technical and non-technical audiences will make me a valuable asset to DataRobot. I am eager to contribute my skills and passion for machine learning to your organization and be a part of your outstanding team.

Thank you for considering my application. I am excited about the opportunity to contribute to the cutting-edge projects at DataRobot and further develop my expertise in machine learning. I look forward to the possibility of discussing my candidacy further in an interview.

Sincerely,

Chris Wu

Chris Wu

cell: (778) 886-2552
chrisw21@student.ubc.ca

EDUCATION

Bachelor of Computer Science

Sept 2022 - Ongoing

- University of British Columbia

Bachelor of Science: Major in Biology

Sept 2016 - Apr 2022

- University of British Columbia

RELEVANT EXPERIENCES

Ophthalmology Research Assistant - Working with Dr. Jason Mah, ophthalmologist

Aug 2021 - Present

- Collaborated with Dr. Jason Mah to implement machine learning techniques for diagnosing eye diseases such as diabetic retinopathy, glaucoma, and macular degeneration, utilizing OpenCV for image comparison
- Assisted in the development and refinement of machine learning models for improving diagnostic accuracy and efficiency, contributing to enhanced patient care and outcomes
- Successfully set up cloud-based electronic medical records (EMR), working with the ophthalmologist, gaining hands-on experience troubleshooting and communicating with vendor (ACCURO)
- Responsible for taking accurate medical history, problem solving with the ophthalmologist on differential diagnoses, carefully explaining diagnosis while creating rapport with patients

Simple Open Solution Company

Apr 2021 - Aug 2021, Apr 2020 - Aug 2020

- Designed and built microservices-based web applications with Node.js and Javascript with a team
- Created a Cloud-based storage system with separate use of EKS, GKE, Kubernetes (K3S), Docker, and employed use of Grafana for observability (for data visualization, metrics, and logs over time)
- Successfully built a machine learning platform to perform image recognition with usage of OpenCV and TensorFlow

- OpenCV: Compared eye retinal images to differentially recognize diabetic retinopathy, glaucoma, and macular degeneration
- TensorFlow-Lite: Plant species recognition and identification

COMMUNITY CONTRIBUTIONS

Crisis Intervention and Suicide Prevention Centre of BC

Aug 2017 - Present

- Designed and upgraded a web-based scheduler to streamline shifts in collaboration with staff and volunteers
- Managed and responded to distress and suicide line calls to provide callers with emotional support and empathy
- Asessed suicide risk and helped callers navigate mental health concerns, with referrals to appropirate health care services

Nursing Home, Fellburn Care Center - *Volunteer*

May 2017 - Jan 2020

- Resolved technological issues and streamlined internet services for senior residents
- Planned and organized with senior residents and facility staff in exercise, weight training programs/activities & played piano during mealtimes

Private Tutoring

May 2016 - Aug 2019

- Tutored a professional enrolled in SFU continuing studies Medical and Legal Interpretation and Translation Programs who successfully received both certificates
- Tutored high school students with AP Biology, AP Chemistry, AP Physics I & II

OTHER SKILLS

Landmark Forum Professional Development

2015 - 2019

- Successfully completed training courses used by many Fortune 500 companies and institutions for their employees to further professional and personal development
- Transformed relationships with co-workers and family, enhanced leadership skills and soft skills

National Lifeguard Pool Course Completed

- Certified CPR C & AED
- Gained solid understanding of lifeguarding principles, communication techniques, teamwork, and judgment skills for emergency procedures

2550 Willow Street, Vancouver
April 13, 2023

Dear Ms. Johnson,

I hope this message finds you well. I am currently applying for a Machine Learning Intern position and would be honored if you could serve as a reference for me. As my supervisor during my time at the ophthalmology clinic, you observed my passion for machine learning and my ability to develop and apply algorithms for diagnosing eye diseases. If you would be willing to serve as a reference, I would be grateful.

Thank you in advance, I hope to hear from you at your earliest convenience. If you have any questions, please let me know at chriswu.ca@gmail.com.

Regards,
Chris Wu

763 E Broadway, BC
April 15, 2023

Dear Mr. Smith,

As a volunteer coordinator during my time at CrisisCentre, you had the opportunity to witness my dedication to volunteering and my ability to work effectively in a team. I am confident that the skills and qualities that I demonstrated during my time such as strong communication skills, compassion, and the ability to take on additional responsibilities, will make me a valuable addition to the company.

Thank you in advance for your time and consideration. Should you have any questions or require further information, please feel free to contact me at chriswu.ca@gmail.com.

Best regards,
Chris Wu

21 Pine Street, BC

April 9th, 2023

Dear Ms. Chen,

I am currently in the process of applying for a Machine Learning Intern position and would be deeply grateful if you could provide a reference for me. As my mentor during my internship at Simple Open Solutions, you were able to observe my commitment to analyzing and interpreting complex datasets using machine learning techniques.

If you would be willing to offer a reference, I would be extremely grateful. Thank you in advance for your help and support. If you need any additional information, please don't hesitate to reach out to me at chriswu.ca@gmail.com.

Warm regards,
Chris Wu