

# Bjorn Christensen

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Recent university grad based in New York seeking full-time employment in the field of Machine Learning

## EDUCATION

### McGill University

Montreal, QC

*Bachelor's Degree in Computer Science, East Asian Studies, Minor in East Asian Language* Sep. 2019 – Jan. 2024

## CURRENT PROJECTS

### Golf Ball Detection Model | *OpenCV, Python, Visual Studio, Faster/Mask R-CNN*

April 2024 – Present

- Developing a model to track golf balls for an in home golfing simulation product
- Testing effectiveness of R-CNN models in retrieving kinematic values of an object between images
- Uses a predictive regression model to simulate ball flight paths

## RESEARCH

### Image Generation Model Research | *Python, GAN/DRAGAN, Git, PyTorch, TensorFlow, CelebA*

April 2023

- Verified findings of Kodali et al.'s paper "On Convergence and Stability of GANs"
- Explored efficacy of a Generative Adversarial Network (GAN) and Deep Regret Analytic GAN in escaping *Mode Collapses* to improve model performance
- Utilized a PyTorch DRAGAN implementation and tested on the MNIST and CelebA datasets

### NLP Research for Classification | *Python, Naive-Bayes, BERT, Git, Kaggle, sklearn, LLM*

March 2023

- Implemented a Naive-Bayes Model from scratch and compared it to a fine-tuned pretrained BERT Model in classifying IMDB reviews as "positive" or "negative"
- Investigated attention matrices to determine which weight distributions favored correctly versus incorrectly labeled reviews

## EXPERIENCE

### Data Collection and Analysis Intern

Jan. 2024 – Feb. 2024

*Eduworks*

*Corvallis, OR*

- Performed product testing on third party software to ensure user data was being logged correctly
- Collected user experience data to create a more accessible product that increased customer retention

### Game Dev McGill

Oct. 2019 – April 2023

*McGill University*

*Montreal, QC*

- Created numerous games using C# and C++ as part of a team
- Utilized robotics research to implement various path planning and behavioral models to give computer controlled characters the appearance of being semi-sentient AI

### Lettuce Club McGill

Sep. 2021 – Dec. 2023

*McGill University*

*Montreal, QC*

- Co-founded club and held position of Event Coordinator

## TECHNICAL SKILLS

**Languages:** Python, SQL (MySQL), Java, C#, C/C++, JavaScript, HTML/CSS

**ML Models:** CNN, Faster/Mask R-CNN, GAN/DRAGAN, BERT, LLM, Generative, Classification, Predictive, NLP

**Developer Tools:** Git, Docker, Kubernetes, Tableau, Power BI, Colab, VS Code, Visual Studio, Excel, Vim, Kaggle

**Libraries:** Pandas, NumPy, Matplotlib, SciPy, PyTorch, TensorFlow, Keras

## ADDITIONAL EDUCATION

### Mandarin Language Studies

2022

*Shantou University*

*Guangdong, CN*

### Danish Language Studies

2018 – 2019

*Clavis Sprogskole*

*Roskilde, DK*