

Bjorn Christensen

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Recent grad seeking full-time employment in the field of computer science with a focus on, but not limited to, machine learning and data science

EDUCATION

McGill University

Montreal, QC

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

EXPERIENCE

Data Collection and Analysis Intern

Jan. 2024 – Feb. 2024

Eduworks

Corvallis, OR

- Performed product testing on third party software
- Worked with Google Forms to collect user experience data
- Used Trello to manage workflow

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 and game design knowledge to implement various path planning models for AI

Lettuce Club McGill

Sep. 2021 – Dec. 2023

McGill University

Montreal, QC

- Co-founded club and worked as an Event Coordinator

PROJECTS AND RESEARCH

Golf Ball Detection Model | *OpenCV, Python, C++, 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 a Mask R-CNN model and a Faster R-CNN model in retrieving translational and rotational values of an object between images
- Uses simple kinematics and noise generated from a predictive regression model to simulate ball flight paths

Image Generation Model Research | *Python, GAN/DRAGAN, Git, PyTorch, TensorFlow, CelebA* April 2023

- Researched to reproduce the 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*
- 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 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

TECHNICAL SKILLS

Languages: Python, Java, C#, C/C++, SQL (MySQL), 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, Google Colab, VS Code, Visual Studio, Excel, Vim

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

ADDITIONAL EDUCATION

Mandarin Language Studies

2022

Shantou University

Guangdong, CN

Danish Language Studies

2018 – 2019

Clavis Sprogskole

Roskilde, DK