

Eoin Mc Allister

Software Engineer / Machine Learning Engineer

Machine Learning Engineer skilled in Deep Reinforcement Learning with 2 years of experience creating machine learning models. Respectful self-motivator gifted at finding reliable solutions for software issues. Enthusiastic team player ready to contribute to company success.

Projects

- Research / Thesis - Designed a Deep Reinforcement Learning algorithm that utilized Distributed Learning, Evolution Strategies and Off Policy Deep Q Learning to improve on Exploration efficiency, Exploitation efficiency, decrease catastrophic forgetting and handle environments with sparse / irregular rewards. Built on PyTorch
- Natural Language Processing - Sequence 2 Sequence Neural Machine Translation model with attention. A transformer model that translated English Sentences to French. Built on Keras / Tensorflow
- Deep Learning Project - Designed a Convolutional Neural Network from scratch (From maths without the use of frameworks such as TF or PyTorch)
- Machine Learning Projects - Includes regression, Support Vector Machine versus K Nearest Neighbours, Multinomial Logistic Regression from scratch versus Scikit Learn / Sklearn Logistic regression model
- Reinforcement Learning project - Designed a basic grid environment to replicate the Frozen lake game and trained a Q Learning agent to traverse the environment towards a goal

Work History

2019-03 -
2019-09

Software Engineer

Airtel-ATN, Dublin

- Direct software programming using Python and development of products documentation.
- Coordinate installation of software system on Linux OS servers.

Contact

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WWW

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Skills

Machine Learning

Data Structures and Algorithms

Deep Learning

Python

Data Science

Communication

Leadership

Team player

Reinforcement Learning

Natural Language Processing

- Train users to use new or modified equipment.
- Modify existing software to correct errors, to adapt it to new hardware, or to upgrade interfaces and improve performance requirements.
- Collaborated effectively with members of software development team and personnel in other departments.

Tensorflow / Keras

PyTorch

SKlearn

2021-11 -
2022-05

Deep Learning Hardware Engineer

Intel, Dublin

- Direct Verilog programming
- Worked in Linux environments
- Experience using both GitHub and GitLab

Education

2020-08 -
2021-08

Master of Science: Computer Science

National University of Ireland Galway - Ireland

Computer Science masters specialised in Artificial Intelligence topics.

- Research thesis on 'Improving exploration efficiency and diversity in Off-Policy Deep Reinforcement Learning Algorithms through Evolution Strategies and Novelty Search' in which my work has received a first class honors

- Covered modules such as Machine Learning, Deep Learning, Reinforcement Learning, Natural Language Processing (NLP), Advanced NLP, Agents and Multi Agents, Data Visualisation, Embedded Image Processing (CV), Optimisation and Ethics.

- Experience in building Neural Networks using frameworks such as TensorFlow and PyTorch

- Experience building Machine Learning models using frameworks such as Scikit-learn

2016-09 -
2020-05

Bachelor of Science: Computer Engineering

Technological University Ireland - Ireland