FINN ST JOHN

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GitHub → | LinkedIn →

EDUCATION

UC San Diego, BS in Cognitive Science 2019 – 2023
Specialization: Machine Learning and Neural Computation

- Data Science
- Deep Learning
- Interaction Design
- Linear Algebra
- Multivariable Vector Calculus
- Neural Networks
- Object-oriented Programming
- Probability
- Python Programming
- Supervised Machine Learning
- Unsupervised Machine Learning

WORK

DevOps Engineer – General Atomics Aeronautical July 2023 – Present

- Develop and optimize CI/CD pipelines with GitLab's Pipelines API.
- Create and maintain virtualized environments (containers and VMs) for both testing and development using Vagrant, Packer, Ansible, and Podman.
- Led the effort to adopt Terraform into our infrastructure management process. Managed infrastructure started with Artifactory and later moved to vSphere and Vault. Managed project, including creating timeline, setting and enforcing deadlines, and defining high-level goals.

DevOps Intern – General Atomics Aeronautical June 2022 – July 2023

- Designed and developed a toolchain of Python scripts for managing the third-party software scanning process through Artifactory.

PROJECTS

Rotten Tomatoes Supervised Machine Learning Analysis → Mar 2023 – June 2023

- Cleaned and formatted a Kaggle dataset for machine learning analysis.
- Implemented classification algorithms (SVM, Logistic Regression, Random Forest, K-Nearest Neighbor) using SciKit Learn.
- Tuned hyperparameters with Grid Search and Randomized Search using K-fold and Stratified K-fold cross-validation.
- Evaluated each model with SciKit Learn's metrics library and presented findings in a Jupyter notebook.

GTZAN Unsupervised Machine Learning → Mar 2022 – June 2022

- Implemented K-means clustering for audio data using Python.
- Partially implemented the principal component analysis algorithm for audio data.
- Visualized exploration results using Matplotlib and documented findings in the final report.

Bias ML – Winner of SD Hacks 2021 → Feb 2021

- Designed and developed the frontend using React JS and Chart JS.
- Wrote a web-scraping algorithm to retrieve text from articles using Puppeteer and Google Firebase.
- Facilitated communication between the frontend and Google AutoML NLP API using Google Firebase.

Escape to Earth – Genetic Algorithm → Jan 2021

- Designed and developed the site using vanilla JS, HTML, and CSS.
- Implemented graphics and animations using PixiJS.
- Programmed the genetic algorithm and a basic 2D physics engine from scratch.

PROFICIENCIES

- Ansible
- Git & GitLab
- HTML & CSS
- JavaScript
- Packer
- Podman
- Shell Scripting
- Terraform
- Unix & Windows
- Vagrant
- Virtualization Technologies