

Christian Green

4 Hanford Road, Stoneham, MA

7814372465 | cbg654@gmail.com | github.com/greenchris10 | linkedin.com/in/christian-green-a10443170

EDUCATION

Wentworth Institute of Technology, *MS in Applied Computer Science*, **GPA - 3.8** | Boston, MA

Syracuse University, *BS in Applied Mathematics, Minor in Computer Science* | Syracuse, NY

Conferences: International Conference on Artificial Intelligence and Applications (ICAIA), AAAI Conference on Artificial Intelligence (AAAI-25)

SKILLS

| | |
|-----------------|---|
| Languages | Python, JavaScript, SQL, SAS, Matlab, R, Git, Bash, LaTeX, Haskell, Java |
| Software | Linux, Tensorflow, Pytorch, Blender, OpenCV, Flask, Streamlit, YOLO, Matplotlib, Sklearn, Pandas, Transformers, Docker, NLP |
| Research Topics | Adversarial Machine Learning, Generative Adversarial Networks, Object Detection, Image Segmentation, LLM |

EXPERIENCE

Wentworth Institute of Technology, *Research Assistant* | Boston, MA

August 2023 - Present

- Engineered a universal adversarial attack capable of generating a single noise pattern applicable across multiple viewpoints.
- Conducted comparative analysis of universal perturbations against popular adversarial methods, achieving less than 5 percent model accuracy at lower noise levels.
- Applied statistical modeling techniques to analyze attack success rates and compare perturbation robustness across different adversarial methods.
- Authored scientific publications summarizing results, statistical methodologies, and experimental findings.

Blue Cross Blue Shield of Massachusetts, *Actuarial Analyst* | Boston, MA

August 2020 - July 2022

- Conducted statistical analyses on healthcare cost trends, utilizing multivariable regression models to assess premium changes.
- Designed retention models for quarterly health insurance premiums for BCBSMA members.
- Collaborated with the Department of Insurance (DOI) to evaluate annual rate increases.
- Presented quarterly Administrative Budget Reports to the Chief Actuary and executive leadership.
- Managed Cognos TM1 database, working with engineers to enhance membership data processing.
- Facilitated New England Health Plan (NEHP) administration, ensuring accurate cost distribution across providers.

Blue Cross Blue Shield of Massachusetts, *Actuarial Intern* | Boston, MA

June 2020 - August 2020

- Conducted medical research to refine condition-based code inclusion criteria.
- Mapped conditions to Episode Treatment Groups (ETG) using SQL-based analysis.
- Developed data reports summarizing statistical findings for healthcare trend analysis.

PROJECTS

Masters Thesis

- Proposed targeted universal perturbation method offering a practical and scalable alternative to computationally expensive 3D adversarial attacks.

One Noise to Rule Them All | Python, Blender, TensorFlow, Torch

- Designed untargeted universal perturbation by crafting a single noise perturbation applicable to various views of the same object.
- Published work at ICAIA and AAAI-25.

NLP Book RAG System | Python, LangChain, Milvus, Hugging Face, Streamlit, Docker, Ollama

- Developed a scalable NLP-driven search system that enables retrieval augmented generation across vectorized embeddings of Frank Herbert's Dune series.
- Integrated LangChain to generate LLM-powered responses to queries using Ollama (LLaMA 3.2), providing contextually relevant answers instead of simple text retrieval.
- Designed a containerized architecture using Docker and Docker Compose, ensuring efficient deployment and compatibility with cloud environments.
- Leveraged Milvus (Zilliz) vector database to store and retrieve high-dimensional text embeddings, optimizing query performance for real-time interaction.