Evan Butler

Machine Learning/Deep Learning Engineer

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Websites, Portfolios, Profiles

- https://www.linkedin.com/in/evan-butler-538993318
- https://evanb.online
- https://github.com/TechieArtist

Skills

Programming: Python, SQL, Rest API Design

Data science and libraries:Statistical Analysis, Pandas, Numpy

IT professional specializing in AI, with a solid foundation in computer science and software engineering. Formal education includes a year at a vocational school in Tokyo, where skills were honed before leaving due to family matters. Since the age of 18, self-study and dedicated learning have built expertise, amounting to four years of practical application. A natural problem solver, consistently taking on personal projects to advance career, from experimenting with different AI models to developing websites. Hands-on experience and passion for technology drive continuous expansion of knowledge and capabilities in the ever-evolving field of IT.

Work History

2024-01 - 2024-07

Programming Intern

Day Service Star Education, Tokyo, Japan

- Taught coding to children and high school students unfamiliar with programming, covering languages such as Python, GLSL, and Java.
- Collected data on common mistakes made by beginners, formatted it into machine learning dataset, and submitted it to my superiors.
- Provided general IT support, including building and installing PCs and managing server databases with student information.
- Conducted lessons in both English and Japanese.

2021-05 - 2021-12

Information Technology Technician

FFTechnicians, Times Square

- This involved traveling to various company buildings in Times Square and offering PC troubleshooting services and transportation services to other branches

Education

20230 - 2024-05

Vocational School: AI Systems

Nihonkougakuin - Tokyo

AI Systems Program, Nihon Kogakuin Senmon Gakko, Kamata

2023-2024 (Incomplete due to family matters)
At Nihon Kogakuin Senmon Gakko, I pursued a specialized curriculum focused on AI systems. The program emphasized practical, hands-on training and covered a broad range of topics essential for a career in artificial intelligence and machine learning. Key areas of

Infrastructure: Docker, Git etc.

Databases and Data Engineering: Spark, MySQL ,KAFKA

Machine Learning: SVM, Regression, NLP, K-Means

Deep Learning: TensorFlow, PyTorch, Neural Networks - LTSM and RNN

Languages

English: Native language

Japanese C2

Proficient

study included:

- **Machine Learning Fundamentals**: Supervised and unsupervised learning techniques using Python.
- **Deep Learning**: Neural networks, CNNs, and RNNs with TensorFlow and PyTorch.
- **Data Science**: Data collection, preprocessing, and analysis with tools like Pandas and NumPy.
- **Programming**: Python and C++ with emphasis on software engineering principles.
- **AI Ethics**: Discussions on bias, fairness, and societal impact of AI.

The AI Systems program at Nihon Kogakuin Senmon Gakko is designed to bridge the gap between academic knowledge and industry needs, providing students with the skills necessary to excel in the fast-evolving field of AI.

Certifications

Coursera: Machine Learning Specialization

Additional Information

Repository: https://github.com/TechieArtist/chat2.git

Transformer-based Chatbot Experiment

- **Description**: Experimented with a publicly available Transformer model to build a chatbot for natural language understanding and generation.
- **Technologies Used**: Python, PyTorch, Hugging Face Transformers.
- **Role**: Developer
- **Key Contributions**:**Model Implementation**: Utilized Hugging Face's Transformers library to implement a chatbot model.

  Data Processing: Applied basic preprocessing and tokenization techniques to prepare text data for model training.

  Deployment: Deployed the model locally to test its performance and user interaction.
- **Outcome**: Gained hands-on experience with Transformer models and enhanced understanding of natural language processing.

Repository: https://github.com/TechieArtist/GANproject.git

GAN-based Image Generation Project using MNIST

- **Description**: Developed a Generative Adversarial Network (GAN) to generate realistic images of handwritten digits using the MNIST dataset.
- **Technologies Used**: Python, TensorFlow, Keras, MNIST Dataset.
- **Role**: Lead Developer
- **Key Contributions**:**Model Implementation**: Designed and implemented the GAN architecture using TensorFlow and Keras to generate images of handwritten digits.

  Data Processing: Collected, cleaned, and preprocessed the MNIST dataset for training the GAN, including normalization and reshaping of images.

  Training and Optimization: Conducted hyperparameter tuning and employed advanced training techniques such as gradient penalty to improve the quality of generated images.

  Evaluation: Evaluated the model's performance using metrics such as Inception Score (IS) and Frechet Inception Distance (FID) to ensure high-quality image generation.
- **Outcome**: Successfully generated high-quality images of handwritten digits, demonstrating a strong understanding of GANs and their applications in image generation.