



Evan Butler

Machine Learning Engineer

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Professional Summary

Experienced AI professional with strong expertise in machine learning and deep learning. Proven ability to develop and deploy complex models, with a passion for continuous learning and innovation in the field.



Work History

2024-01 -
2024-07

Programming Intern

Day Service Star Education, Tokyo, Japan
Taught coding fundamentals (Python, GLSL, Java) to students, enhancing their programming skills and curriculum understanding.

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

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 study included:

- Focus: AI systems
- supervised/unsupervised learning
- neural networks
- AI ethics



Certifications

Coursera: Machine Learning Specialization



Student Data Analysis Project

Repository: [TechieArtist/Student-data-analysis](https://github.com/TechieArtist/student-data-analysis) (github.com)



Websites, Portfolios, Profiles

- <https://www.linkedin.com/in/evan-butler-538993318>
- <https://evanatelier.com>
- <https://github.com/TechieArtist>



Skills

Programming: Python, SQL, Rest API Design



Data science and libraries: Statistical Analysis, Pandas, Numpy



Infrastructure: Docker, Git etc.



Databases and Data Engineering: Spark, MySQL, KAFKA



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



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



Languages

English: Native language
Japanese



Proficient (C2)

Project: Comprehensive data analysis on student performance metrics.

Technologies Used: Python, Pandas, NumPy, Matplotlib, Seaborn, SQL

Key Contributions:

- **Data Collection & Preprocessing:** Improved data quality by 20% and reduced missing data by 15%.
- **Exploratory Data Analysis (EDA):** Identified key correlations (e.g., 0.65 between study hours and grades), enhancing understanding of performance factors.
- **Visualization & Reporting:** Produced over 30 visual reports, aiding data-driven decision-making.
- **Model Training:** Achieved 85% accuracy in predicting student performance, highlighting predictors like attendance and homework.

Outcome: Provided actionable insights, improving targeted interventions for struggling students by 25%, demonstrating strong data analysis and visualization skills.



Transformer Chatbot Project

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

Project: Developed a Transformer-based chatbot for natural language understanding and generation.

Technologies Used: Python, PyTorch, Hugging Face Transformers

Key Contributions:

- **Model Implementation:** Fine-tuned a pre-trained Transformer model on a custom dataset of 50,000 conversational pairs.
- **Data Processing:** Implemented advanced preprocessing and tokenization techniques for various text formats.
- **Optimization:** Achieved a BLEU score of 0.35 through hyperparameter tuning and techniques like gradient clipping.
- **Deployment:** Successfully deployed the chatbot locally, achieving 85% user satisfaction in simulated conversations.
- **Challenges & Solutions:** Enhanced context retention and response generation using attention mechanisms and architectural adjustments.