Evan Butler

Machine Learning Engineer

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

AI Systems Program, Nihon Kogakuin Senmon Gakko, Kamata
2023 - 2024
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

Contact

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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

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
Proficient (C2)

Student Data Analysis Project

Repository: TechieArtist/Student-data-analysis (github.com)
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.