Javon Jack

Senior Deep Learning Developer

Deep Learning professional with 10 years experience and data analyst with the ability to apply Deep Learning techniques and leverage algorithms to solve real-world business problems

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Experience

Apr 2019 - Nov 2022

Senior DL Engineer

HCLTech Florida, United States

- Contributed to the development of 12 official university-sponsored AI products and provided training for ongoing product updates.
- Created charts in Jupyter Notebook to analyze bitcoin prices with 98% accuracy and visualize data using Matplotlib.
- Developed and deployed a DL model for a financial services client, resulting in a 25% reduction in fraudulent transactions and saving the client $500k annually.
- Constructed a pair of multi-layer neural networks for generating realistic faces using GAN(Generative Adversarial Network) on PyTorch environment within 2 years.
- Directed the Machine Learning and NLP components of a next-generation IVR - interactive customer response system within 3 years.
- Analyzed a highly complex multi-modal data set containing tens of millions of records.

Nov 2015 - Jan 2019

Natural Language Processing Expert

OpenText Toronto, Canada

- Trained an attention-based encoder-decoder model to accurately check grammar errors, achieving a precision rate of nearly 99%.
- Developed a Chinese-English machine translation system using Transformers and other organizing models, outperforming Google Translation with 95% accuracy.
- Led the migration from Firebase to AWS, resulting in monthly cost savings of $27,000+ and an average load speed increase of 42%.
- Pioneered the development of a character-based transformer spelling correction model using Triton and ONNX, achieving inference latencies below 178ms at 35 req/s.
- Upgraded an NLP system that automatically classified 7.5K emails as spam or advertising mail, utilizing 11+ natural language processing methods to improve accuracy and efficiency.

May 2013 - Oct 2015

Junior DL Engineer

AIBrain Hong Kong, HK

- Trained a CNN(Convolutional Neural Network) to accurately analyze images of dogs and identify breeds with 99% accuracy, utilizing transfer learning to improve performance and simplify the model.
- Conducted data analysis and interpretation for a retail client over an 8-month period, identifying trends and patterns to inform business decisions.
- Implemented an LSTM network to predict patterns and assisted in developing a DL model that detects anomalies in the building process of a construction robot and machine, reducing downtime by 83%.
- Devised and proposed a machine learning algorithm that detects deviant behavior in robots, utilizing SIFT, HOG, and 20+ other computer vision methods to improve accuracy.
- Monitored the health of 15+ robots using React/Redux with a Node.js backend and Python scripts, collecting 100 TB of data from their sensors.

Education

Jan 2008 - May 2012

Bachelor of Science

George Brown College Canada

Languages

English
Advanced

Chinese
Intermediate

Skills

NLP
Predictive Analysis

Computer Vision
ML Algorithm

Data Visualization
Reinforcement Learning

Data Analysis
GAN

Programming Languages: C, Python, Java, Matlab

Library: PyTorch, TensorFlow, Scipy, Scikit-learn, Kerasm Numpy, Pandas, Matplotlib