

Jay Yanamandala
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Portfolio: <https://jayc279.github.io>

Deep Learning, ML Engineer
[Kaggle](#) [LinkedIn](#) [GitHub](#)
[Shiny Apps](#) [RPods](#)

"Driven AI & ML Engineer | Innovator in [Analytical Modeling & Hyperparameter Tuning](#) | Committed to Delivering High-Quality Solutions and Advancing the AI Community"

Dynamic and results-oriented AI & ML Engineer with a proven track record of innovation and excellence in analytical modeling and hyperparameter tuning. Bringing forth a strong team-oriented attitude and a passion for delivering high-quality business solutions with precision and predictability.

With extensive experience in fine-tuning hyperparameters for Deep Neural Network models, I am adept at optimizing model architectures and parameters to achieve superior performance and accuracy. My commitment to continuous improvement drives me to explore new avenues in AI and contribute actively to the advancement of the AI community.

I thrive in collaborative environments where my analytical skills and programming expertise can be leveraged to tackle complex challenges and drive meaningful outcomes. I am dedicated to bringing value to your team and organization by harnessing the power of AI to solve real-world problems, streamline processes, and foster innovation.

By joining your organization, I am poised to make significant contributions toward enhancing predictive analytics, improving decision-making processes, and driving business growth. With a relentless focus on quality, innovation, and teamwork, I am ready to embark on new challenges and make a positive impact on your team's success.

Summary

AI and Machine Learning Engineer with a strong background in designing and implementing advanced neural networks and predictive models. Demonstrated expertise in deep learning, natural language processing (NLP), and predictive analytics.

- Led a comprehensive analysis on the [explainability of Deep Learning Neural Networks \(DLNN\) limitations in multiclass classification datasets](#), highlighting biases and the need for further investigation.
- Designed and executed a [34-layer Residual Deep Neural Network for 3D multi-resolution imaging datasets](#), predicting human vasculature effects in SenNet + HOA project.
- Leveraged [NLP techniques on SwiftKey's corpus data to create predictive models](#), including bigrams, trigrams, and quad-grams, showcased through presentations and [Shiny App](#) development.
- Applied fully connected [Neural Nets to forecast cardiovascular disease risk in individuals with high obesity](#), optimizing models based on various factors.
- Developed a fully connected [Deep Neural Network to predict customer churn in a banking dataset](#), enabling proactive customer retention strategies.
- Collaborated with Kaggle community to enhance deep learning algorithms for improved predictions on Convolutional Neural Networks.
- Won multiple 'bronze' medals for notebooks written on hyperparameters search techniques: [Neural Networks Deep Learning Hyperparameters search](#) and [Keras-Tuner-hyperparameters-search-for-Obesity-Risk-Prediction](#)
- Furthermore, brings over 25 years of electronic design experience, demonstrating leadership in software engineering, quality assurance, and production support. Proven track record in team management, innovation, and delivering high-quality solutions across global teams.

Technical Skills:

- Deep Learning, Predictive Modeling, Data Wrangling, Machine Learning Algorithms, TensorFlow, Keras, PyTorch, NLP, Transformers, Data Visualization (matplotlib, seaborn, ggplot), Image Augmentation, Reinforcement Learning, Statistical Analysis, Cloud Platforms (AWS, Google Cloud).
- Proficient in problem-solving, QA methodologies, and testing frameworks. Skilled in various programming languages including Python, R, Perl, PHP, Tcl, Shell, with experience in C++ and C.
- Familiarity with cloud platforms such as AWS and Google Cloud.

Certificates [Deep Learning \(Deeplearnig.ai\)](#) (2023) [Machine Learning \(Stanford\)](#) (2023)
 [Data Science \(John Hopkins University\)](#) (2021) [Machine Learning \(UW\)](#) (2021)

Education University of Wyoming M.S. Electrical & Electronics, M.S. Finance

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