

Professional Development Plan (PDP)

Goal	Action Steps	Resources Needed	Timeline	Success Criteria
Enhance deep learning expertise	Complete a TensorFlow course on CNNs and RNNs	Online course (Coursera/edX)	2 months	Build and evaluate CNN and RNN models
Apply ML to real-world problem	Join Kaggle competition related to image classification	Kaggle account, datasets	1 month	Submission and feedback on project
Master NLP with Transformers	Study BERT and GPT architecture via Hugging Face tutorials	Transformers library, Colab	Ongoing	Fine-tune a model on a custom NLP task

Skills Matrix

Skill Area	Before Module	After Module	Evidence
Exploratory Data Analysis	Limited	Confident	Completed EDA on project dataset
Regression & Clustering	Basic	Skilled	Implemented linear models and K-means in Python
Neural Networks	Unfamiliar	Competent	Developed and trained ANN on MNIST
CNN & Computer Vision	None	Capable	Built CNN using Keras
NLP & Transformers	Novice	Practical	Fine-tuned BERT on text data
Evaluation Metrics	Insecure	Analytical	Compared models using F1, ROC, AUC
Coding in Python	Intermediate	Advanced	Modular ML scripts with documentation