Project Ideas with code

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Natural language processing (NLP)

Text Classification	Language Modeling (LM)	Named Entity Recognition (NER)	Question Answering (QA)
Text Summarization	Machine Translation (MT)	Image Captioning	Conversational AI (chatbot)

Computer vision

Image classification	Object Detection	Object Tracking	Segmentation
Image Generation	Pose Estimation	Super Resolution	Style Transfer
Image Captioning	Action Recognition		

Miscellaneous concepts

Recommendation Systems	Anomaly Detection	Time-Series	Topic Modeling
Clustering	Survival Analysis	Causal Inference	Speech Recognition
Speech Synthesis	Music Generation	Privacy	

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Algorithms

Linear Algebra	Maximum Likelihood Estimation (MLE)	Naive Bayes	K Nearest Neighbors (KNN)
Linear Regression	Logistic Regression	Decision Trees	Support Vector Machines (SVM)
Gradient Boosting	Multilayer Perceptrons (MLP)	Convolutional Neural Networks (CNN)	Embeddings
Recurrent Neural Networks (RNN)	Attention	Transformers	Generative Adversarial Networks (GAN)
Autoencoders (AE)	Graph Neural Networks (GNN)	Gaussian Processes (GP)	

Frameworks

Python	NumPy	Pandas	Scikit-learn
TensorFlow	PyTorch	TensorFlow JS	JAX

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Concepts

Transfer Learning	Unsupervised Learning	Semi-supervised Learning	Self-supervised Learning
Reinforcement Learning	Multi-task Learning	Meta Learning	Few-Shot Learning
Bayesian Deep Learning	Adversarial Learning		

Data, Models and training

Interpretability	Model Compression	Bias	Data Collection
Data Augmentation	Labeling	Visualization	Hyperparameter Optimization
Experiment Tracking	Distributed Training	Systems Design	

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