

JDNET TECHNOLOGIES

(ISO 9001:2015 CERTIFIED INSTITUTION)

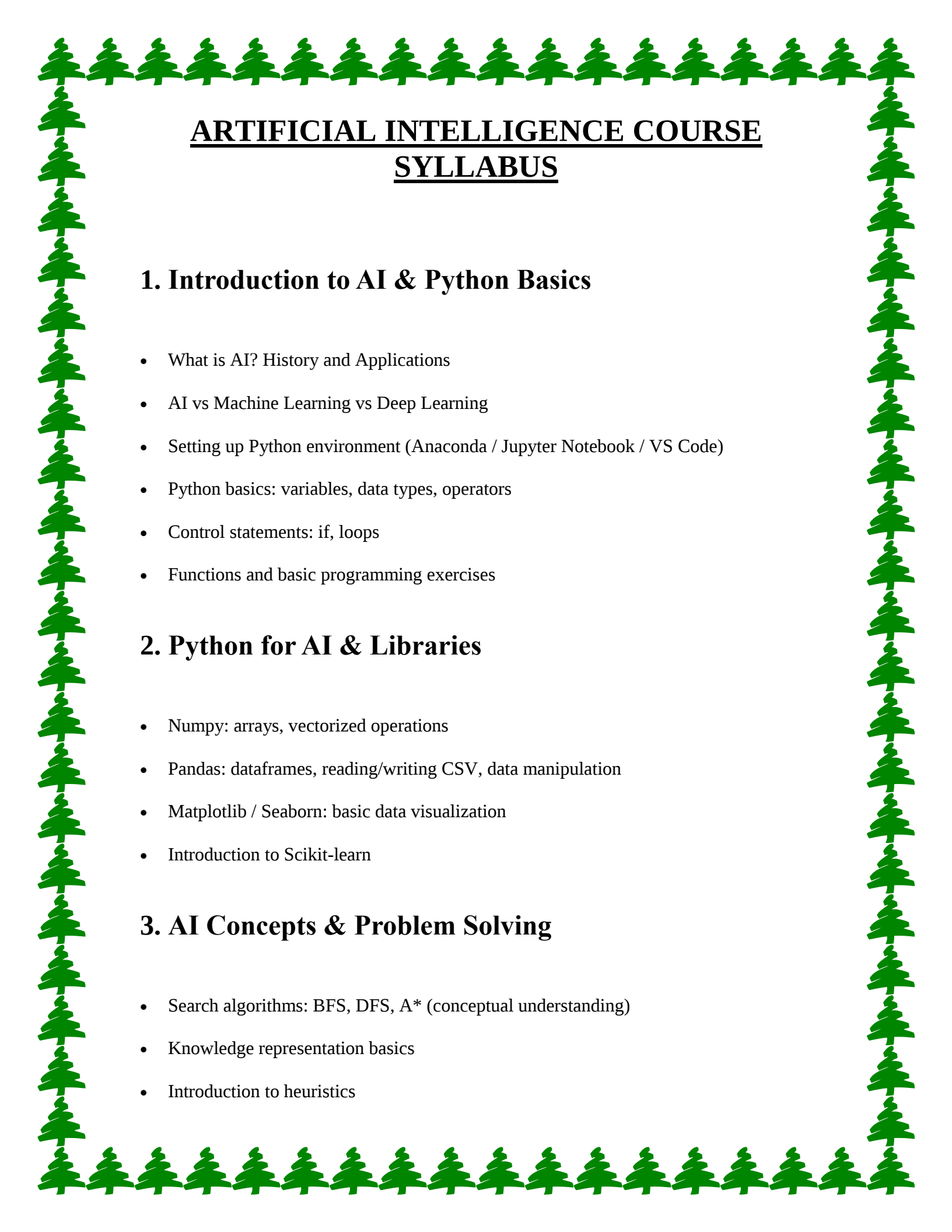
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ARTIFICIAL INTLLIGENCE



TRAINING COURSES FOR ALL DEPARTMENTS



ARTIFICIAL INTELLIGENCE COURSE

SYLLABUS

1. Introduction to AI & Python Basics

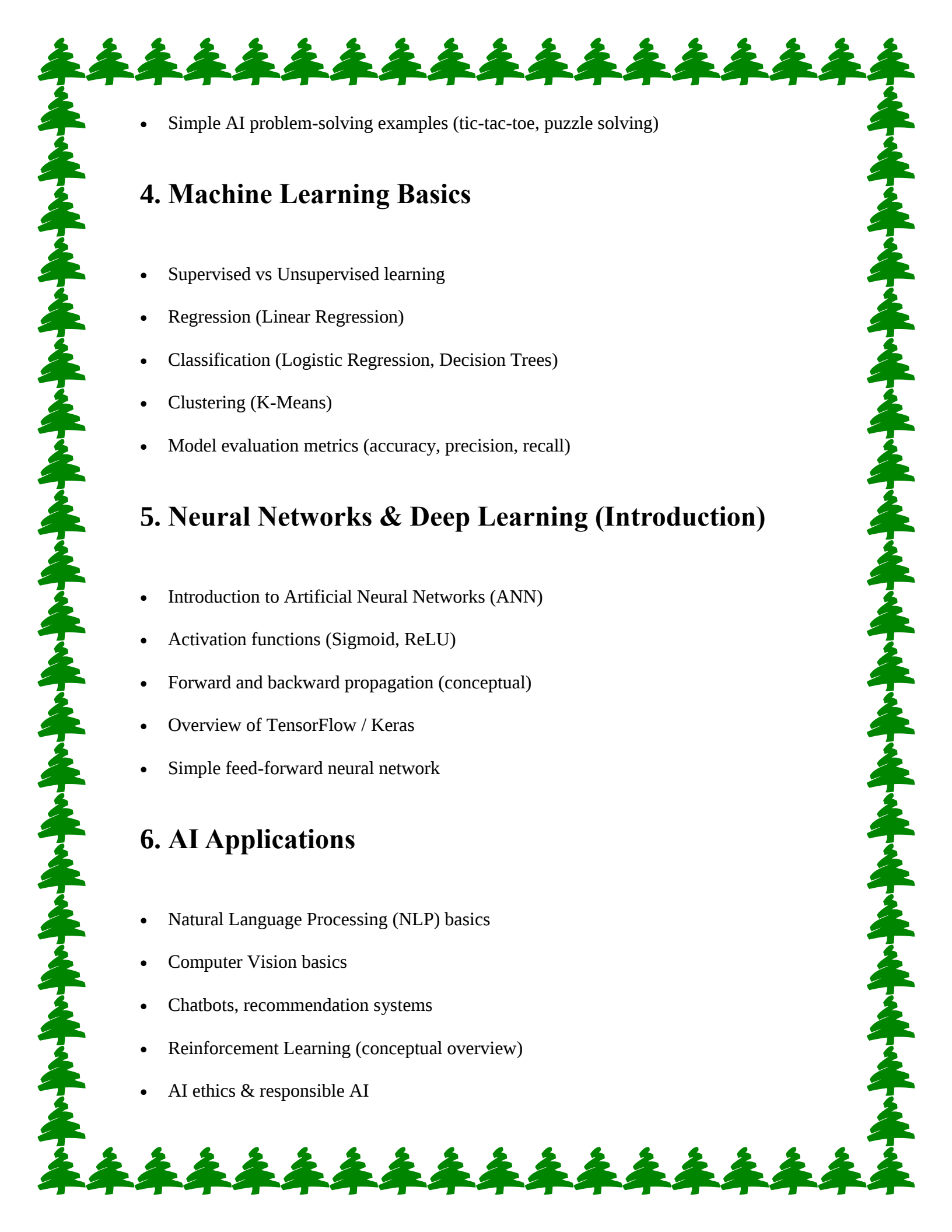
- What is AI? History and Applications
- AI vs Machine Learning vs Deep Learning
- Setting up Python environment (Anaconda / Jupyter Notebook / VS Code)
- Python basics: variables, data types, operators
- Control statements: if, loops
- Functions and basic programming exercises

2. Python for AI & Libraries

- Numpy: arrays, vectorized operations
- Pandas: dataframes, reading/writing CSV, data manipulation
- Matplotlib / Seaborn: basic data visualization
- Introduction to Scikit-learn

3. AI Concepts & Problem Solving

- Search algorithms: BFS, DFS, A* (conceptual understanding)
- Knowledge representation basics
- Introduction to heuristics

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- Simple AI problem-solving examples (tic-tac-toe, puzzle solving)

4. Machine Learning Basics

- Supervised vs Unsupervised learning
- Regression (Linear Regression)
- Classification (Logistic Regression, Decision Trees)
- Clustering (K-Means)
- Model evaluation metrics (accuracy, precision, recall)

5. Neural Networks & Deep Learning (Introduction)

- Introduction to Artificial Neural Networks (ANN)
- Activation functions (Sigmoid, ReLU)
- Forward and backward propagation (conceptual)
- Overview of TensorFlow / Keras
- Simple feed-forward neural network

6. AI Applications

- Natural Language Processing (NLP) basics
- Computer Vision basics
- Chatbots, recommendation systems
- Reinforcement Learning (conceptual overview)
- AI ethics & responsible AI



Connect With Us

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