CENTRAL TOOL ROOM AND TRAINING CENTRE, BHUBANESWAR
DAYWISE CONTENT OF ADVANCE ESDP ON AI & ML

DAY	TOPIC OF SESSION-1	TOPIC OF SESSION-2		TOPIC OF SESSION-3	TOPIC OF SESSION-4
DAY-1	Introduction to AI, ML and deep learning	Data analysis using Numpy, pandas, matplotlib and seaborn	**L U N C H**	Case studies on data analysis	Case studies on data analysis
DAY-2	Machine learning algorithms, Supervised learning,Linear Regression,Polynomial regression	Building predictive models		Logistic regression, KNN,SVM algorithm classification problems	Building predictive models using classification algorithms
DAY-3	Introduction to Computer vision	Image processing, canny edge detection		Haarcascade classifier, face detection	Practice on dataset
DAY-4	Introduction to deep learning	Artificial neural network architecture, back propagation, hidden layer, activation function		Practice on MNIST dataset	Introduction to CNN (Convolutional neural network)
DAY-5	Model calssification using CNN	Transfer learning		Introduction to LLM concept, Generative AI	Hugging face models, project