Contents

9 in 1 Program

Training
23 hours of Live Online Interactive Classroom Sessions
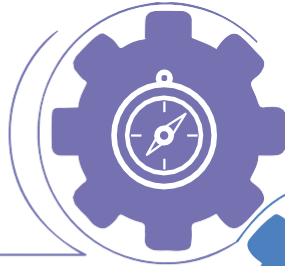
Projects
Facility to undergo various Hands-on Projects for Practical learning of the Course

Internship
Internship Assistance to gain practical experience of the learnings

Hands on Experience
We believe in "practice makes us perfect". And you will undergo the same.

Certification
Distinguish your profile with the Course Completion Certification and showcase expertise

E-Learning Access
With abundant tools and techniques, video content, assessments, and more

Bootcamps
We will provide the access to join our Upcoming Bootcamps for next 12 months

Job Ready
We upskill you with all the required skills and makes you ready for job

Certification Ready
Our Courses makes you ready for respective certification exams and Proficiency tests

Key Features

01 Attend Batches at your convenience in the next 1 year

Internship assistance
Post Training **02**

03 Hands on Experience

Certification for the completion of
Our ULearn' s training Course **04**

05 Multiple Practice Sessions
to enhance your job skills

Bootcamps as part of the
Training course **06**

07 Lifetime Access to Materials

Access to
E-Learning Portal **08**

09 Access to Proficiency Exam
Dumps to enhance skills

CERTIFICATE

ULearn
what you love

OF PARTICIPATION
This certificate is presented to:

NAME

powered by

ISA

University of Colorado **Denver**

has successfully completed the ULearn
Spoken English Course
in June 2023. We wish you all the best for your future endeavors.

KOSHWITHA REDDY B
CFO ULEARN

Course Curriculum

Topics covered	Breakdown of each session
Introduction to Machine Learning	why do we need it? Step by step process to tackle a problem
Google colab setup, Understanding Jupyter notebook	Demo + Practical
Leveraging Pandas library	Reading dataset, taking count, Null data handling, Conditional filtering.
Live- interactive Practice session.	Dealing with some real-time tasks.
Ways to handle missing values and imbalanced data	isnull(), notnull(), dropna(), fillna(), replace, up sampling, down Sampling.
Live- interactive Practice session.	Dealing with some real-time tasks.
Group by, Concatenating, Merging data frames.	Demo + Practical
Essentials of python for Machine learning.	List, tuple, set, Virtual environment, Package installation.
Practical on basic python programming.	Functions, parameters, Lambda expressions.
Handling Pandas data frame with Python	Updating a data frame, performing analytical operations on dataset.
Introduction to statistics.	How is Statistics used in Data Science
Sampling techniques, Variance, Standard deviation.	Random Sampling, Stratified sampling.
Covariance, Correlation, Normal Distribution, Standard Normal Distribution	Interactive session with examples of real world
Central Limit Theorem, Confidence Intervals, Hypothesis Testin	Interactive session with examples of real world
Outlier detection using box plot	What are outliers, its impact and identifying them.
Histograms, Box and Violin Plots, Scatterplot	Interactive session with examples of real world
Exploratory Data Analysis (EDA)	Uni – Variate Analysis, Bi-Variate Analysis
Doubt clearing Session on Statistics	Student picked topics revision
Doubt clearing Session on Pandas	Discussion on ways to excel panda's library.
What Is Machine Learning?	Scikit-learn library.
Supervised Versus Unsupervised Learning, Regression Versus Classification Problems	Naming some popular ML algorithms
Data sampling techniques	Train Data, Test Data, K-Fold, cross validation.
Metrics for Regression Problem	Mean Squares, Squared residual, R squared.
Metrics for classification problem	Confusion Matrix, Tp,fp, tn, fn, Capture rate report, Precision, recall, sensitivity.
Live- interactive Practice session.	Python code to derive metrics.
Feature Selection techniques	SHAP values, model. Select
Intuition of Linear regression.	Deriving best fit line for two-dimensional data.
Solving a real-world ML problem using linear regression (Part-1)	Data collection, EDA, visualization.
Solving a real-world ML problem using linear regression (Part-2)	Sampling the data, Training the model, Evaluating performance metrics.
Cross validation of ML model	Grid Search cv, Random Search CV.
Intuition of Logistic regressions.	Sigmoid function, ROC-AUC (Threshold setting)
Solving a real-world ML problem using Logistic regression 1	Data collection, EDA, visualization.
Solving a real-world ML problem using Logistic regression 2	Sampling the data, Training the model, Plotting confusion matrix
Calculating TPR,FPR, Precision, Recall, F1 score.	Type 1 and Type 11 errors.
Introduction to Neural Networks	Different layers involved
Activation functions	a)Sigmoid b)Relu c)Softmax d)Leaky Relu e)Tanh
Optimization techniques	Gradient Descent, Learning Rate, Epoch, Batch Size.
Introduction to NLP	Discussion on various use cases
NLP - text pre-processing	stop words, normalization, Stemming and lemmatization
Various Vectorizing techniques.	Bag of words, TF-IDF, word2vec.
Sentiment analysis project and discussion - Project 3	Review classification.
Leveraging MS Excel	Applying formula, Pivot Table, deriving descriptive statistics.
Doubt clearing session.	Student picked topics revision
Resume build-up, LinkedIn profile set-up.	How to gather attention in professional platform
Discussing interview experience for ML Engineer.	Frequently asked questions in interviews.

ULearn®'s Training Methodology

Live Projects	Live Projects are carried out during the training tenure to develop experiential learning for theparticipants. This helps in a better understanding of the concepts and gain in-depth practicalinsight
Unique Pedagogy	Uses a mix of techniques aligned to our unique G.C.A.O. pedagogy. This enables participantsto derive focused-action-oriented outcome from the training
End-to-End Engagement	Participants will be engaged throughout the training through reverse presentations, group activities, brainstorming

Certification Process

1

Counselling

Consult one of the counselors and get into the Right Batch. Register yourself for the Training Course that suits your interest

2

Attend the Training

Attend the Instructor-Led Sessions of the Chosen Training Course and get your Course Completion Certification.
Go Through the Recorded Sessions, in case you missed any topic or training

3

Submission of Projects Assigned

Submit the Hand-on Projects assigned during the training to the trainers for Assessment and Certification

4

Complete the Training Course

Post Completion of the training, get Course Completion Certification of the attended Training Course from ULearn &

ISA University of CU Denver in front of your name. Post it on social media and apply for internship, jobs, and Freelancing Projects

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ULearn what you love

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Career Benefits

01 — Rise your career with **Advanced Training Skills** and move ahead in your career

Brush up your knowledge in **Chosen Course** & harness **Skills** — **02**

03 — Transform your career after learning different segments of **Course Skills**

Get **Promoted** in current profile with most in-demand skill — **04**

05 — Distinguish your profile from peers during **Job Interviews**

Earn a Rewarding Certification of **the training course** — **06**

07 — Improve **CV & LinkedIn Profile** with professional development

Support a **Startup** with high ROI — **08**

09 — Excel your career in **Creating Presentation** and achieve your goals

*"Spreading knowledge in a range of disciplines and fields, delivering quality higher education at all levels, serving national needs, and furthering international public interest." **- Financial Express***

About ULearn

ULearn is an Edu-tech platform that offers a personalized learning platform. At ULearn, we are driven by a passion for transforming education and empowering learners to unlock their full potential. We believe that everyone, regardless of their location or background, should have access to quality education.

ULearn Vision & Mission

At ULearn, we believe that education should be accessible to all. That's why we have made affordability and flexibility a cornerstone of our platform. What sets us apart is our commitment to delivering a comprehensive learning experience. We offer a wide range of courses and programs that cater to diverse interests and skill levels. Whether you're a student seeking academic support, a professional looking to upskill, or an individual eager to explore new subjects, we have something for you.

We believe that knowledge has the power to change lives. We strive to create a dynamic and inclusive learning environment that inspires curiosity, fosters critical thinking, and encourages lifelong learning. Our commitment to excellence ensures that you receive the highest quality education and gain practical skills that are relevant in today's rapidly evolving world.

Our platform boasts interactive lessons, engaging multimedia content, and collaborative learning tools that enhance the learning journey. We understand that every learner is unique, and that's why we prioritize personalized learning experiences. We take pride in our passionate and qualified instructors who bring their expertise and industry insights into the virtual classroom. They are dedicated to nurturing a supportive and interactive learning community, where learners can connect, share ideas, and collaborate on projects.

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