CELEBRATING
15 YEARS

QualityThought ®
Transforming Dreams! Redefining Future!

AI
DATA SCIENCE
Python, AI, ML, DL, NLP, ML Ops
& DATA ANALYTICS

Proficiency in Data Science Skills by Role

Data Analyst
- ▶ Data Collection.
- ▶ Data Cleaning & Preprocessing
- ▶ Data Analysis.
- ▶ Data Visualization.
- ▶ Report Generation.
- ▶ Data Modeling.
- ▶ Data Quality Assurance.
- ▶ Collaborative Decision-making

Data Scientist
- ▶ Data Preparation ▶ Data Preparation
- ▶ Data Analysis
- ▶ Data Investigation And Data Analysis
- ▶ Data Mining
- ▶ Data Pipelining
- ▶ Data Visualization
- ▶ Machine Learning
- ▶ Computer Vision
- ▶ Experience With Mlops
  Technology: Git, Docker, Kubernetes,
  Mlflow/dvc/clearml, Airflow

NLP Engineer
- ▶ Develop and implement natural language processing (NLP) algorithms to extract meaningful insights from text data.
- ▶ Design and develop NLP-based applications to automate text-based tasks.
- ▶ Analyze and interpret text data to identify patterns and trends.

Computer Vision specilist
- ▶ Deep learning
- ▶ Object recognition & tracking
- ▶ Image segmentation
- ▶ Feature extraction
- ▶ Pattern recognition
- ▶ Image analysis

ML Engineer
- ▶ Design and deploy machine learning models to production
- ▶ Optimize model performance and scalability
- ▶ Work closely with software engineers and data scientists

AI Engineer
- ▶ Develop intelligent systems using NLP, computer vision, or speech recognition
- ▶ Integrate AI capabilities into applications
- ▶ Research and experiment with new AI models

MLOps Engnieer
- ▶ They are responsible for maintaining the infrastructure that supports the models and algorithms that power the products of their company, including:
- ▶ Monitoring the performance of these systems
- ▶ Identifying ways to improve their performance
- ▶ Investigating issues when they arise
- ▶ They also monitor the performance of your models, and they need to be able to troubleshoot any errors or bugs that may occur.

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INTENSIVE / INTERNSHIP PROGRAM

20+ REAL-TIME PROJECT

1,00,000+ Students Trained
60,000+ Students Placed
1000+ Placement Companies
15 Years of Student Trust

6 Hours Training

Mock Interviews

Aptitude / Softskills

Resume Building

100% Guaranteed Job Assistance

Industry Ready Curriculum

📞 **73373 44490**

📍**AMEERPET**
#507, Nilgiri Block, Aditya Enclave

Shaik Sumayya tasleem
1 review
★★★★★ a week ago NEW

Few months ago, I enrolled in the Data Science course at Quality Thought Institute, and it has been a highly rewarding experience.

The course covers everything from basic to advanced topics, and the faculty and mentors are incredibly experienced and approachable. They are always willing to offer extra help whenever needed. Every weekend, assignments and tasks are conducted, which help reinforce the learning process. Additionally, the monthly drives provide valuable opportunities to gain knowledge and build confidence in both technical and communication skills.

A special mention goes to K. Subba Raju Sir, who has over 18+ years of experience. His ability to explain complex concepts through real-time scenarios, combined with his motivating approach, truly made a difference in my learning journey.

Overall, my experience at Quality Thought Institute has been fantastic. The quality of teaching, the resources available, and the opportunities for networking were all top-notch. As a fresher, I highly endorse this institute to anyone looking to start or further their career in Data Science.

lokesh pottabathini
1 review
★★★★★ 3 weeks ago NEW

I joined Quality Thought a few months ago to begin my journey in Data Science, and my experience has been truly rewarding. The institute provides a well-structured curriculum that makes even complex concepts easy to grasp for beginners like me.

A special mention goes to "K.Subbaraju" Sir, whose expertise and teaching style are outstanding. He breaks down advanced topics into simple, relatable examples, making it easier for someone with no prior experience to understand.

The hands-on projects and real-world case studies offered by the institute were incredibly helpful in building my practical skills and confidence. If you're a fresher looking to build a strong foundation in Data Science, I highly recommend Quality Thought for your learning journey.

👍 ↗

Naveen kumar
1 review
★★★★★ 3 weeks ago NEW

Iam a working IT employee and was looking for career transition into Data Science landscape.
I have joined the 'Data Science with GenAI' course taught by experienced faculty 'SubbaRaju' garu.
He has very good experience in teaching field over 18+years and have vast knowledge in many areas of cutting edge technologies like data Science, Machine Learning and Agentic AI.
He make every student understandable manner on all fundamental concepts needed with various examples during online/offline interactions with him.
His guidance in giving both the theoretical and practical exposure over the topics like Mathematics, Statistics etc. is good enough for non-math background students also to crack the interview and get a decent job.
Although the course during is long, the faculty kept the student's learning energy levels by motivating the batch thoroughout the course.
Every Weekend student assessments on covered topics were done to meet the target timelines.
Lab facility is nice to practice with Assistants to help and clear the doubts if any.
Overall I prefer this institute for newbies as well, since the courses here are well structured curriculum and job oriented.

Arun Kaduru
1 review
★★★★★ 3 weeks ago NEW

I am a working professional and I highly recommend Quality Thought to anyone looking to build a strong foundation or advance their career in Data Science: it's an excellent Training Institute .

Data science trainer "K Subbaraju Sir" is an exceptional trainer in Data Science, known for his deep expertise and passion for teaching. His ability to simplify complex concepts and make them relatable to real-world scenarios is truly commendable.

The Quality thought offers a well-structured curriculum that caters to both beginners and experienced professionals. The hands-on projects and real-world case studies were particularly valuable.

Shaik sameena Sulthana
2 reviews
★★★★★ 6 months ago

Really I love this data science course , iam totally impressed with the way of teaching , completing the course structure intime ,we are solving the realtime projects. Iam very happy with this quality thought data science course I have done research on many websites and institutes but finally I got the best course in this quality thought.Iam really very thankful to them . I suggest you to pick the data science course without any doubts

Sai Ram
1 review
★★★★★ 3 months ago

I had a fantastic experience with the Data Science Training at Quality Thought. The trainers were knowledgeable, the curriculum was well-structured, and the hands-on projects helped me gain practical skills. The support team was also responsive, making the learning journey smooth and enjoyable. Highly recommend this training for anyone looking to build a strong foundation in data science

Naveen
2 reviews
★★★★★ 3 months ago

"I am glad that I joined Quality Thought. It's an excellent place to kickstart and enhance a career in data science. With the extraordinary guidance of Priyanka Ma'am and Ajay Sir, I received invaluable support and mentorship. I came to the institute with zero knowledge in data science, and thanks to their expertise, I now possess a solid set of skills to advance in this field. I highly recommend Quality Thought to anyone looking to build a career in data science.

Dhruva Veldhurthi
2 reviews
★★★★★ 6 months ago

I am currently taking data science. The manager is great, and helpful. The course material goes in dept into data science and background information. I would highly recommend going to Quality Thought for data science especially.

QualityThought®

Transforming Dreams! Redefining Future!

CELEBRATING 15 YEARS

Offered Programs

AI- Data Science

TRAINING (Offline / Online)

1. Any Graduate
2. By Realtime Practitioners
3. Realtime Scenario Projects-2
4. LMS Access for 6 Months
5. Resume Preparation
6. Doubts Clarification
7. 1 Mock Interview
8. Interview Questions
9. Placement Referral Support
10. Course Completion Certificate

**Price
45K**

AI- Data Science

(JOIP) Intensive

1. Full Day Training
2. LMS Access for 8 Months
3. Soft Skills & Aptitude Classes
4. Monthly Placement Screening Tests
5. Assignments / Mock Tests
6. Interview Readiness Sessions
7. Mega Drive Selection Mandatory For Placements
8. Placement Assistance for 12months
9. Realtime Scenario Projects-3
10. By Realtime Practitioners
11. weekly 1 mock interview

**Price
45K + 55K**

AI-Data Science+ Prompt Engineering & LLMs

(JOIP) Intensive & Internship

1. Internship @IT Company-Ramana Soft
2. By Realtime Practitioners
3. No Mega Drive Selection
4. 3Hrs.- Internship/3Hrs.-Training
5. Interview Questions & Readiness Sessions
6. Monthly Placement Screening Test
7. Live Projects / Client Projects implementation
8. Personalised Assistance for Complex Tasks
9. 6 - 8 Hrs Daily
10. LMS Access Upto 1Year
11. 100% Placement Assistance - Until you're Hired
12. Internship Completion Certificate-6 Months from Ramana Soft or Client
13. Soft Skills & Aptitude Classes

**Price
90K + 30K**

AI-Data Science+ Prompt Engineering& LLMs

(QSIP) Intensive & Paid Internship

1. Full Day Training Paid Internship from Day 1
2. By Realtime Practitioners
3. No Mega Drive Selection
4. 3Hrs.- Internship/3Hrs.-Training
5. Interview Questions & Readiness Sessions
6. Monthly Placement Screening Test
7. Live Projects / Client Projects implementation
8. Personalised Assistance for Complex Tasks
9. 6 - 8 Hrs Daily
10. LMS Access Upto 1 Year
11. 100% Placement Assistance - Until you're Hired
12. Internship Completion Certificate-6 Months from Ramana Soft or Client
13. Soft Skills & Aptitude Classes

**Price
2lakhs**

Content Explanation

Program Model   :

Demo Date / Time   :

Mode of Training   :

Trainer Details   :

Introduction to Data Science

↳ **What is Data Science?**
↳ **Why data science?**
↳ **Impact of data science**
↳ **Future of Data Science**
↳ **Data Science Life Cycle**
↳ **Introduction to Pre-Core Python**
↳ **Introduction to Jupiter Notebook**
↳ **Overview of Data Science Real Time IDEs**
↳ **Introduction to Google-Collaborator-Notebook**
↳ **Introduction to UNIX Operating System**

Programming In Python For Data Environments

↳ **Core Python and Adv. Python**
↳ **Python Basics**
↳ **Python Introduction**
↳ **Python Data Structure: Lists and Arrays**
↳ **Python Conditions and Branching**
↳ **Python Functions and Methods**
↳ **Exceptions and Files**
↳ **Python OOPs and Advanced Coding**
↳ **PDBC and DB Communications**
↳ **Practice Questions in Python and Reviews**
↳ **Live Application implementation**

Python For Advanced Data Science

↳ **NumPy for Data Science**
↳ **Pandas for Data Science**
↳ **Matplotlib for Data Science**
↳ **Seaborn for Data Science**
↳ **Live Application implementation**
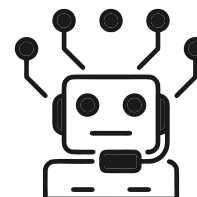
Data Visualization

↳ Basic Plotting for Data Visualisation
↳ Data Manipulation for Visualisation
↳ 1D Data Analysis: Histograms, Boxplots, and Violin Plots
↳ Power-Bi
↳ Introduction to Power-Bi
↳ Data Extraction Process
↳ Data Transformations
↳ Data Modelling and DAX
↳ Data Visualization with Analytics
↳ Power-Bi, Q&A & Data Insights
↳ Live Application3: Visualization of world GDP and carbon dioxide emission
↳ Live Application4: Using Folium Library for Geographic Overlays

Data Analysis In Excel & SQL

↳ Introduction to Excel
↳ Functions, Formulas and Charts
↳ Pivots and Lookups
↳ Ranges and Tables
↳ Data Cleaning: Text Functions, Dates and Times
↳ Conditional Formatting
↳ Sorting and Filtering
↳ Subtotals with Ranges
↳ Data Visualization in Excel
↳ Advanced Excel with AI Features
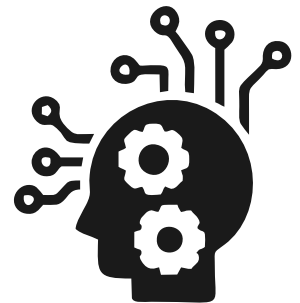
Data Analysis using SQL

↳ SQL - Overview and SQL Process
↳ SQL Commands-RDBMS Concepts
↳ SQL - RDBMS Databases
↳ What is Database?
↳ What is DBMS and RDBMS?
↳ Sub Languages in SQL
↳ SQL - Syntax-Data Types-Operators
↳ Create-Select-Delete-Drop-Insert

↳ Where-AND and OR Conjunctive Operators
↳ Like-Top-Limit or ROWNUM
↳ Order By-Group By-Distinct Keyword
↳ SQL - Constraints-Joins-SQL - Indexes
↳ SQL-Alter-TRUNCATE
↳ Properties of Transactions
↳ Select … Where
↳ Connectivity with Python

Maths For Data Science

STATISTICS

↳ Basics of Statistics
↳ Types of Statistics
↳ Population & Sample
↳ Central Tendencies
↳ Percentiles & Dispersion
↳ Statistics implementation with Python-I
↳ Range, Sample variance and Standard Deviation
↳ Correlation &Causation
↳ Hypothesis Testing
↳ Parametric and Non Parametric Tests

Probability

↳ What is probability?
↳ Importance of Probability in ML
↳ Basics of Probability
↳ Random Variables
↳ Probability Distributions
↳ Maximum Likelihood
↳ Bayes Theorem
↳ Information Theory
↳ Cross Entropy
↳ Information Gain

Linear Algebra

↳ Scalar, Vector
↳ Vector Addition
↳ Vector Subtraction
↳ Multiplying a vector by a Scalar
↳ Dot Product of two Vectors
↳ Cross Product of two Vectors
↳ Scalar, Vector and Matrix
↳ Different types of Matrix
↳ Transpose of a Matrix
↳ Matrix Addition, Subtraction
↳ Eigen Values of Eigen Vectors

CALCULUS
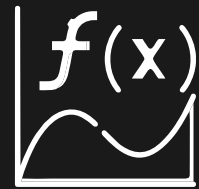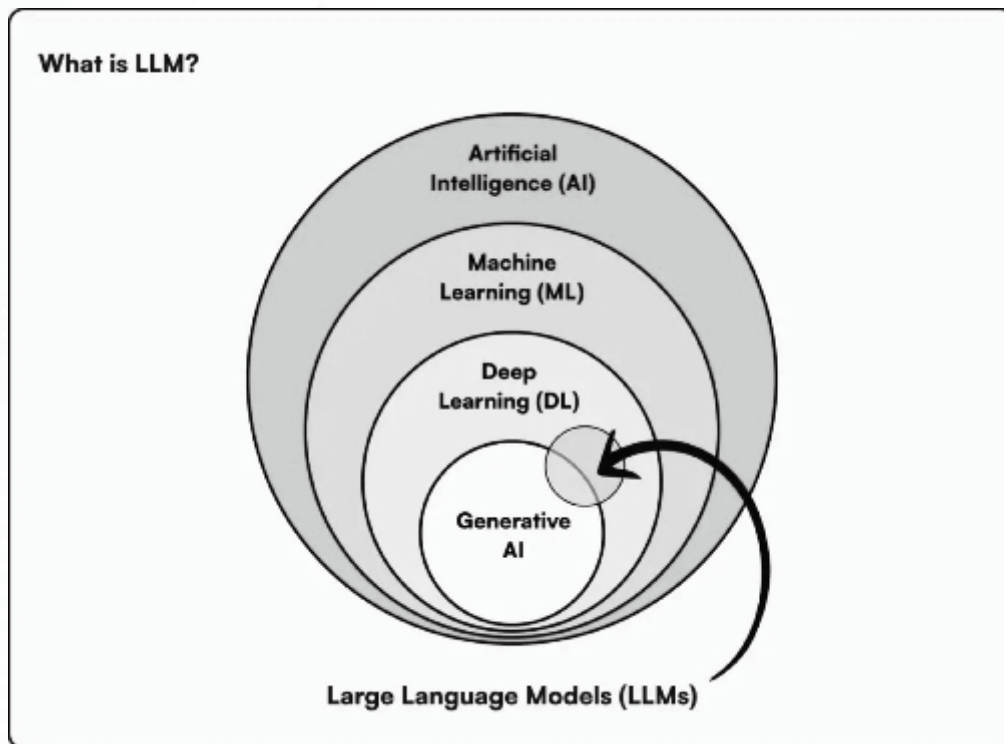
↳ What Is Calculus?
↳ Limits and Differential Calculus
↳ Limits and Continuity
↳ Evaluating Limits
↳ Function Derivatives
↳ Continuous Functions
↳ Derivatives of Powers and Polynomials
↳ Introduction to Multivariate Calculus

Data Structures & Algorithms Tutorial in Python

↳ What are data structures?
↳ Big O notation - Data Structures & Algorithms | Measuring time complexity
↳ Arrays in Python| Big O Analysis| Static Vs Dynamic Array
↳ Linked List - Issues with Arrays | Double Linked List | Big O Analysis
↳ Hash Table - Hash Map | Implementing in Python
↳ Collision Handling In Hash Table| Implementing Chaining in Python
↳ Stack - in Different Languages | Using List as a stack| Deque as Stack
↳ Queue - in Different Languages | Using List as a Queue| Stock Price Examples
↳ Tree (General Tree) -Tree and Data Structure | Implementing in Python
↳ Binary Tree | BST | Binary Search Tree
↳ Graph Introduction - Edge| Node
↳ Binary Search - Linear | Binary
↳ Bubble Sort | Quick Sort | Insertion Sort| Merge Sort| Shell Sort -Techniques
↳ Recursion in Python
↳ More Exercises on DSA

What is LLM?

Artificial Intelligence (AI)

Machine Learning (ML)

Deep Learning (DL)

Generative AI

Large Language Models (LLMs)

Machine Learning

↳ What is Machine Learning?
↳ Types of Machine Learning:
   a. Supervised Learning,
   b. Unsupervised Learning,
↳ Applications of Machine Learning
↳ Types of Data: Continuous and Categorical
↳ Data Exploration and Visualization
   a. Descriptive Statistics
   b. Inferential Statistics
   c. Data Distributions
   d. Correlation and Covariance
   e. Handling Missing Values
   f. Data Visualizations Scatter Plots and Heatmaps
↳ Data Normalization Techniques
↳ Data Imputation Techniques

Regression

↳ Introduction to Regression
↳ Simple Linear Regression
↳ Multiple Linear Regression
↳ Linear Regression Assumptions
↳ Regularization Techniques
   a. Lasso Regression
   b. Ridge Regression
↳ Polynomial Regression
↳ Stepwise Regression
↳ ElasticNet Regression
↳ R-Squared and Adjusted R-Squared
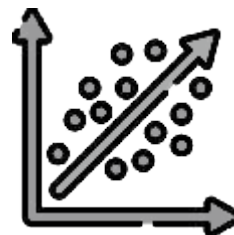
Classification

↳ Introduction to Classification
↳ Types of Classifiers
↳ Linear Classifiers
   a. Logistic Regression
   b. Multinomial Logistic Regression

- ↳ Non-Linear Classifiers
- ↳ Decision Trees
  - a. CART Algorithm
  - b. ID3 Algorithm
- ↳ Random Forests
- ↳ Support Vector Machines (SVMs)
  - a. Kernel Trick
  - b. Soft Margin SVMs
  - c. Multi-Class SVMs

K-Nearest Neighbors (KNN)

- ↳ Naive Bayes
- ↳ Neural Networks for Classification
  - a. Perceptron Algorithm
  - b. Multilayer Perceptron (MLP)
  - c. Backpropagation Algorithm
 - d. Activation Functions

Evaluation Metrics for Classification

- ↳ Confusion Matrix
- ↳ Accuracy, Precision, Recall, and F1-Score
- ↳ Receiver Operating Characteristic (ROC) Curve
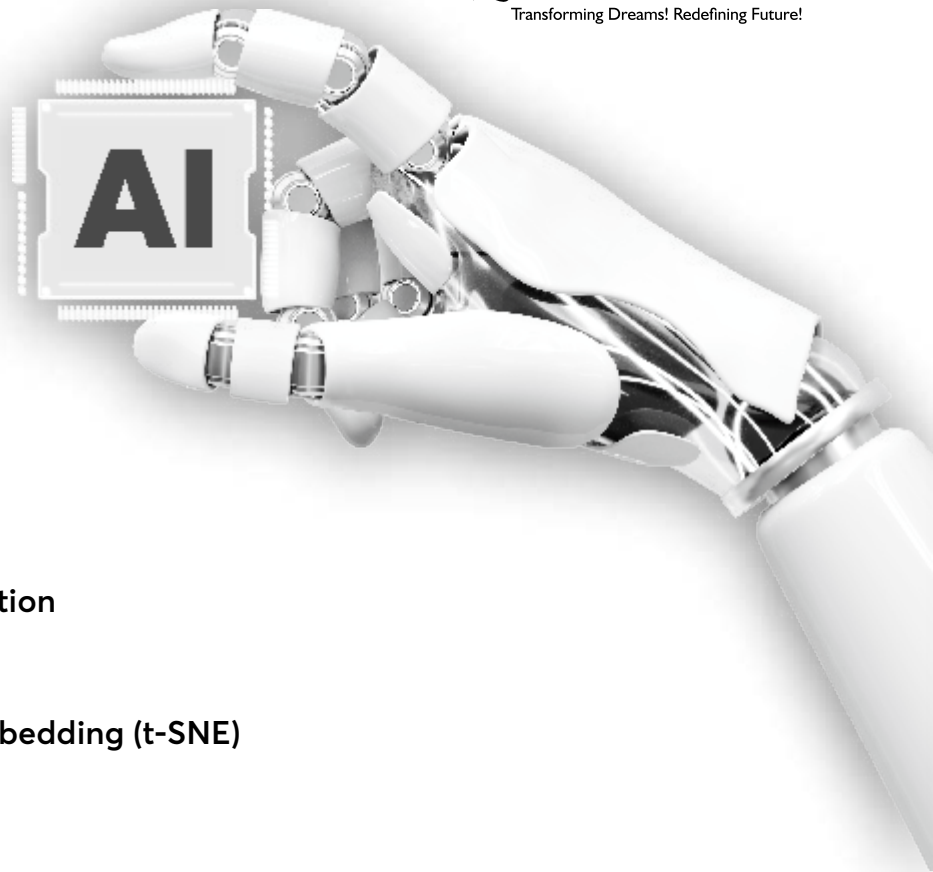- ↳ Area Under the Curve (AUC)

Features & Model Selection

- ↳ Feature Selection Techniques
- ↳ Hyperparameter Tuning Techniques
- ↳ Model Selection Techniques
  - a. Bias-Variance Tradeoff
  - b. Cross-Validation
  - c. Leave One Out Cross Validation

Ensemble Learning

- ↳ Ensemble Methods
- ↳ Bagging Algorithms
- ↳ Boosting Algorithms
  - a. XGBoost Algorithm
  - b. Gradient Boosting Algorithm
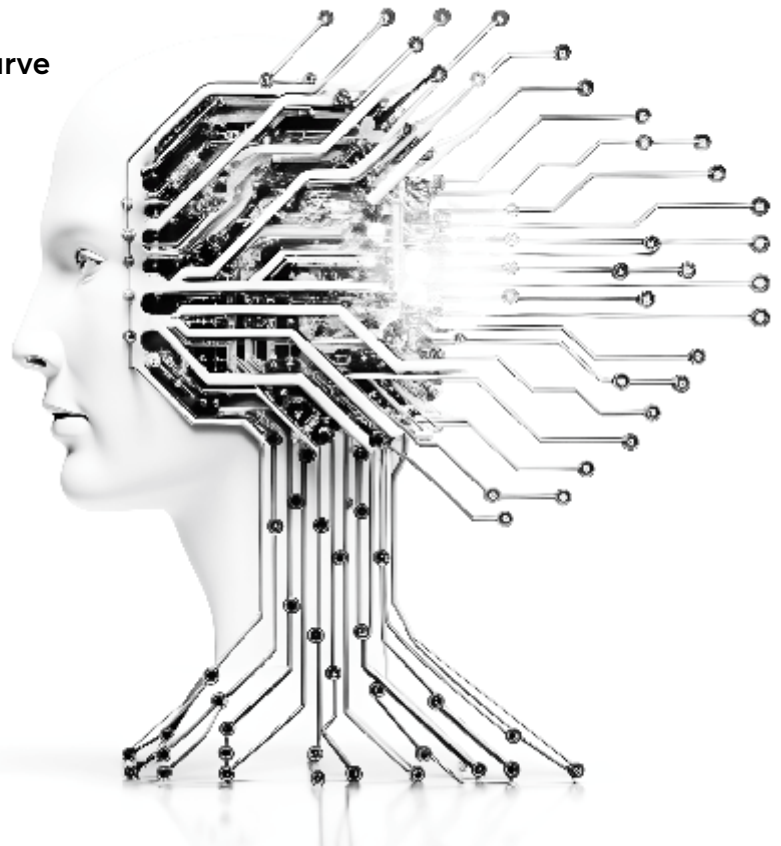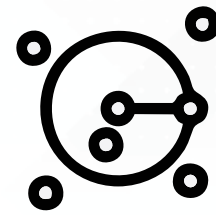
c. LightGBM Alogirhtm
d. CatBoost Algorithm
e. Adaboost Algorithm
↳ Stacking Technique
↳ Blending Technique

Clustering

↳ Introduction to Clustering
↳ K-Means Clustering
↳ Hierarchical Clustering

Dimensionality Reduction

↳ Introduction to Dimensionality Reduction
↳ Principal Component Analysis (PCA)
↳ Sigular Value Decomposition (SVD)
↳ t-Distributed Stochastic Neighbor Embedding (t-SNE)
↳ Linear Discriminant Analysis (LDA)
↳ Truncated SVD

Deep Learning

↳ What is Deep Learning
↳ Different Between Machine Learning and Deep Learning
↳ What is Biological Neural Network
↳ What is Deep Learning Application
↳ What is Artificial Neural Network (ANN)
↳ What is Convolutional Neural Network (CNN)
↳ What is Recurrent Neural Network (RNN)
↳ CNN & Computer Vision
↳ Intro to Images and Image Pre-processing with OpenCV CNN Architecture
↳ Image Classification Case Study
↳ Case Study with Transfer Learning

Natural Language Processing

↳ Introduction to text and Text Pre-processing with nltk and spacy
↳ Vectorization Techniques
↳ Project – Text Classification
↳ RNNs
↳ Project – Sequence Tagging
↳ LSTMs
↳ Auto Encoders

Add on Content
For Internship Students

Prompt Engineering

↳ Understanding Generative AI
↳ Applications of Generative AI
↳ Types of Generative Models: GANs, VAEs, Autoregressive models
↳ Introduction to Large Language Models (LLMs)
↳ Transformer Architecture
↳ Exploring different Opensource LLMs
↳ Introduction to HuggingFace and its Pre-trained LLM Models
↳ Limitations of LLMs
↳ Advantages and Disadvantages of Different LLM Architectures
↳ Accessing and Using Open-Source LLMs for Projects
↳ Responsible AI Development Practices

Prompting Techniques for Generative Models

↳ What is Prompt Engineering?
↳ Prompt Engineering Principles
↳ Concept and relevance of prompt engineering in generative AI models.
↳ Explore commonly used tools for prompt engineering
↳ Prompt Design Strategies
↳ Types of Prompting
↳ Approaches for writing effective prompts
↳ Best practices for creating impactful prompts
↳ Parameter Tuning

LLMs for Word Embedding and Chunking Mechanism

↳ LLMs for Word Embedding and Chunking Mechanism
↳ Word Embedding Introduction
↳ Word Embedding Techniques
↳ Capturing Word Relationships
↳ Sentence Embedding Techniques
↳ Introduction to Vector Databases
↳ Different Types of Vector Databases
↳ Chunking
↳ Perform Chunking of the Document
↳ Traditional Chunking mechanism
↳ Advanced Chunking Mechanism
↳ Character Splitting
↳ Recursive Character splitting
↳ Document-based Chunking
↳ Semantic Chunking
↳ Agentic Chunking

CRT ,VERBAL & SOFT SKILLS

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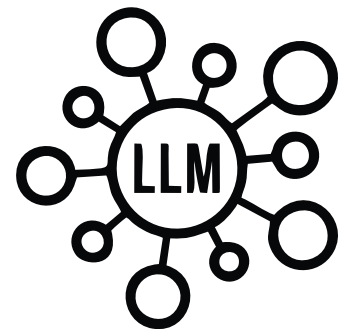
Aptitude	Reasoning	Verbal(English)
Number system (Divisibility ,LCM &HCF,Decimal Fraction,Power…)	Statement & Conclusion	Reading Comprehension
Time &work	Coding & Decoding	Article ,preposition
Speed & Distance	Seating Arrangement (Linear and Circular)	Direct &Indirect speech
Profit and Loss	Analogy pattern (Word and Number)	Active and Passive
SI and CI(Interest)	Odd man out & Number series	Tenses
Permutation and combination	Distance and Direction	Vocab - Synonym and Antonym (On a daily basis)
Probability	Logical word Sequence	Spelling Test
Percentages	Blood Relation	Idioms and Phrases
Averages	Symbols and Notations	Spotting Error
Ratio and Proportion	Rank based Logic	Fill in the blanks
Coordinate and Quadratic Equations	Data Sufficiency	Sentence Improvement And Sentence Completion
A.P and G.P	DI (Pie and Bar graph)	Parajumble Sentence
Allegations and Mixture	Miscellaneous topics (if any)	Word Substitution
Boats and Streams Area &Perimeter		Modal Auxiliary verbs
Miscellaneous topics (Ages , clock & Calendar,Geometry)		Miscellaneous topics (Verbs,Conjunction…..)
DI (Data Intrepretation		

Note: Common Syllabus for Cocubes ,Elitmus ,AMCAT & TCS NQT & for all other MNC companies

Soft Skills Based On LSRW Rule

Grammar sessions

- ↳ Syntax
- ↳ Pronoun
- ↳ Tense(With practical Approach)
- ↳ Modal Auxiliary verbs (Can ,Could …..)
- ↳ Article
- ↳ Preposition
- ↳ Conjunction
- ↳ "Wh"Questions
- ↳ Active and Passive Voice

Communication Skills

(Based on Scientific Proven Techniques)

- ↳ Ice –Breaking session
- ↳ Ted talks (first by Indians followed by foreigners) – Listening
- ↳ General Introduction sessions (to overcome stage fear)
- ↳ Story telling (By using V2 method and with Visualization method)
- ↳ JAM
- ↳ Group Discussion (GD)
- ↳ Debate
- ↳ Presentation skills (corporate style)

Interview Skills

- ↳ Drafting a professional Resume
- ↳ Interview orientation
- ↳ Personality Development
- ↳ HR Questions and Unique Answers to it
- ↳ Dress code and Behavioral Etiquette
- ↳ Things to be done one day before and One
- ↳ hour before an Interview
- ↳ Mock Interviews –2 (Technical cum HR)

Professional Skills and Additional

- ↳ Drafting an Email
- ↳ Business English (Corporate English)
- ↳ Team Building
- ↳ LinkedIn Profiling

Note

Most of the session will be Activity based
Time line to complete the course successfully and Execute the Result.

- ↳ Approx Time - 2 months
- ↳ Everyday 1hour 30 minutes

10 -15 minutes Vocabs session on a daily basis

Our Recent Placed Students

V Nomitha
4.5LPA-Value Momentum

Karthik Sherla
4LPA-Codetru

Ranga Kumar Ch
3LPA-Lanciere

P Hepsibha
3LPA-Lanciere

Geethika
3LPA-Nebulaa

Eswar B
3LPA-Deworks

D Sai Nithish
4.5LPA-Quadone

Sreedhar Balina
3LPA-Lanciere

Nithin Prabhakar
6LPA-Manore Stays

Loka Manikanta
3LPA-Xrg

Madala Gunadeep
4LPA-HIGH-Q Labs

Gundala Sneha
4LPA-Yaritovic

Kosgi Govardhan
4LPA-Deworks

Ajay Kumar
6LPA-Exceloid

Shoaib
6LPA-Mysoft Labs

Badavath Naveen
5LPA-NTT DATA Business

Sarfarazuddin
6LPA-Quad One

Md Fareed
3LPA-Devorks

Sameena Sultana
3LPA-Lanciere

Jyothi
3LPA-Lanciere

Krishna Chaitanya
3LPA-QuadOne

Durgesh Reddy
4LPA-Pranathi Software

Haritha
3.5LPA-Atyeti

Shivani Bandale	LTI Mind Tree	4LPA
Mohammed Fareed	Deworks	3.5LPA
Putta Bhargav	Amazon	4LPA
Abhigna	NTT DATA	5LPA
P Satya Sai Raghuram	Quadone	4LPA

AI DATA SCIENCE & DATA ANALYTICS

▶ **Deep Learning & Machine Learning**
▶ **Training on Cutting Edge Technology**
▶ **Industry Based Training**
▶ **LLM Use Cases, NLP**

100% PLACEMENT ASSISTANCE