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"MOST PROMISING SOFTWARE TRAINING INSTITUTE"



DATA DATA SCIENCE WITH GENERATIVE-AI (PYTHON, ML, DL, NLP)

Proficiency in Data Science Skills by Role

20+ REAL-TIME

PROJECT

Data Analyst

Data Collection.

- Data Cleaning & Preprocessing
- ► Data Analysis.
- Data Visualization.
- Report Generation.

Data Scientist

- Data Collection.
- Data Cleaning & Preprocessing
- ► Data Analysis.
- ► Data Visualization.
- Report Generation.

NLP Engineer

- Data Collection.
- Data Cleaning & Preprocessing
- Data Analysis.
- Data Visualization.
- Report Generation.

Computer Vision specilist

- ► Deep learning
- Object recognition & tracking
- Image segmentation
- ► Feature extraction
- Pattern recognition
- ► Image analysis

Gen Al Engineer



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.

€@ (in) qttworld | @www.qualitythought.in

JOB ORIENTED INTENSIVE PROGRAM

6 Hours Training

Internship

Mock Interviews Resume Building

Aptitude / Softskills Industry Ready Curriculum

40,000+ Students Trained | 14,000+ Students Placed | 200+ Placement Companies | 14 Years of Student Trust





Step into the world of software training guided by the insights of an industry luminary, Ramana Bhupathi. With a career spanning over a decade and a half in the dynamic Information Technology sector, Mr. Bhupathi brings a wealth of experience and expertise that has shaped the course of modern software development.

Mr. Bhupathi's journey commenced at the forefront of technological innovation, with pivotal roles at Satyam Computer and Accenture Consulting. His hands-on involvement in diverse projects, leveraging cutting-edge technologies and agile development methodologies, set the stage for his profound insights into the digital realm.

Notably, his proficiency in executing projects on Microsoft Technologies became a hallmark of his career, reflecting his adaptability and commitment to staying at the vanguard of change.

A witness to the seismic shifts within the software development landscape, Ramana Bhupathi is resolute in his belief that the forthcoming decade will usher in even more rapid transformations. In his astute perspective, the IT workforce must embrace a culture of perpetual upskilling and reskilling to navigate this era of accelerated change.

Mr. Bhupathi's journey is characterized by a passion for cultivating enterprises rooted in emerging technologies. His endeavors have been focused on crafting platforms that not only resonate with the needs of today but also create a positive societal impact. His affinity for startups, each driven by a dedication to scalable solutions powered by Artificial Intelligence and Data Science, underscores his commitment to innovation.

Beyond the boardroom, Mr. Bhupathi's impact extends to the realm of education. His mentorship has illuminated the path for over 10,000 students and professionals, steering them toward lucrative careers in technology. With an unwavering calling to guide future tech talent, he embraced his true purpose, transitioning from the corridors of corporate leadership to the forefront of education. Today, his energy is channeled into honing the skills of young minds, immersing them in the nuances of new-age technologies through comprehensive training and impactful corporate programs.

Join us on an enlightening journey through the pages of this book, as Ramana Bhupathi's profound insights and guidance illuminate the ever-evolving landscape of Information Technology. His wisdom serves as a beacon for both novices and seasoned professionals, reminding us all that in the midst of change lies unparalleled opportunity.

Offered Programs



Content Explanation

Program Name	:	Al Data Science
Demo Date / Time	:	
Course Fee	:	
Duration	:	
Mentor Name	:	

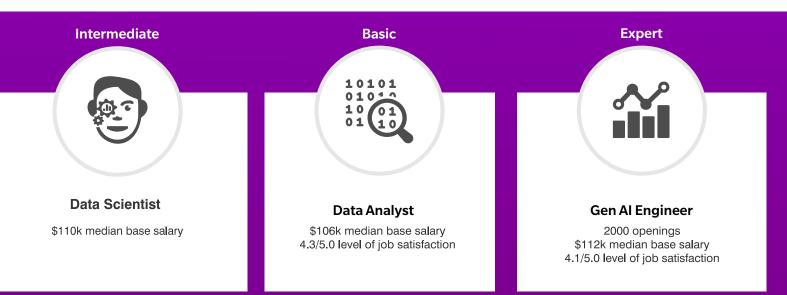
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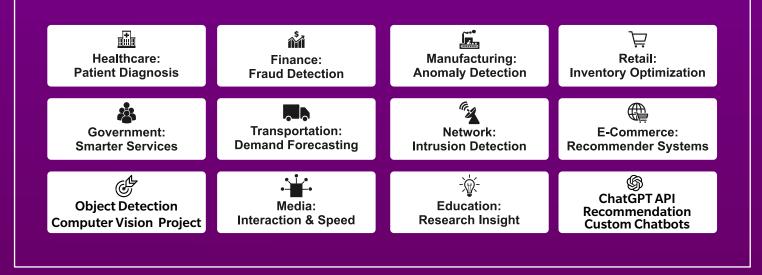
BEST JOB IN IT INDUSTRY : DATA SCIENTIST!

AI, ML and Deep Learning Constitute 60% of the Demand

Experience is losing its premium. With traditional IT job roles vanishing, Techies are turning to short-term Deep-learning courses to stay in the race.



Top 10 Use Cases for Data Science & Machine Learning



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COURSE CURRICULUM ADVANCED COURSE IN DATA SCIENCE

COURSE DURATION	SESSION HOURS	CASE STUDIES
4MONTHS	240HRS	& PROJECTS

A: DATA SCIENCE ADVANCED TOPICS

Module I: INTRODUCTION

Introduction to Jupyter Notebook Getting Started with Data Science Unix Introduction

Module II: PYTHON

Python Basics Python Introduction Python Data Structure: Lists and Arrays Python : Conditions and Branching Python : Functions and Methods Python : Objects and Classes Practice Questions in Python Introduction to NumPy Linear Algebra in NumPy Seaborn, Matplotlib **Project 1 : Satellite Image Data Analysis using NumPy** Introduction to Pandas

Module III: PROBABILITY AND STATISTICS

Introduction to Probability Probability Distributions Describing Distributions Probability Distribution with Multiple Variables Population and Sample Point Estimate Confidence Interval Hypothesis Testing A/B Testing









Module IV: CALCULUS

Derivatives Optimization Gradients Gradient Decent Optimization in Neural Networks Newton Methods

Module V: LINEAR ALGEBRA

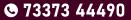
System of Linear Equations Elimination Method Row and Row Reduced Echelon form Vector Algebra Linear Transformation Determinants Eigen Values of Eigen Vectors



Module VI: DATA STRUCTURE ALGORITHMS

- Array String Linked List Searching Algorithm Sorting Algorithm Divide and Conquer Acqu Stack Queue Tree Data Structures Graph Data Structures
- Dynamic Program







Module VII: DATA SCIENCE AND METHODOLOGY

Data Acquisition Data Wrangling Data Statistical Analysis, Grouping and Correlation Model Development Model Evaluation and Refinement Getting started in scikit-learn with the famous iris dataset Training a Machine Learning Model with scikit-learn Comparing Machine Learning Models in scikit-learn Data Science Pipeline: Pandas, Seaborn, and scikit-learn Cross-Validation for Parameter Tuning, Model Selection, and Feature Selection Efficiently Searching for Optimal Tuning Parameters Evaluating a Classification Model : Confusion Matrix and ROC

Module VIII : DATA VISUALIZATION

Basic Plotting for Data Visualisation Data Manipulation for Visualisation 1D Data Analysis: Histograms, Boxplots, and Violin Plots **Project 2 : Visualization of world GDP and carbon dioxide emission Project 3 : Using Folium Library for Geographic Overlays**



Module IX: Power - BI

Introduction to Power-Bi Data Extraction Process Data Transformations Data Modeling and DAX Data Visualization with Analytics Power-Bi, Q&A & Data Insights







Module X : MACHINE LEARNING

Simple Linear Regression Multiple Linear Regression Non-Linear Regression Regression Methods Ridge Regression and Lasso Regression Linear Regression and Decision Tree Regression Random Forest Regression Logistic Regression

Decision Tree Classification

Random Forest Classification Boosting Algorithms Bagging K- Nearest Neighbours Classification Naive Bayes Classification K-Means Clustering

Hierarchical Clustering K-Means and Hierarchical Clustering on the same dataset Density-Based Spatial Clustering of Applications with Noise (DB-SCAN) Support Vector Machines & Regression Principal Component Analysis (PCA)

Applying Principal Component Analysis on Handwritten Digits Dataset Market Basket Analysis

Module XI : ALGORITHM DESIGN AND ANALYSIS

Evaluate the speed, runtime and memory dependencies of algorithmic models Parallel computing systems such as SISD (Single Instruction SingleData Stream), SIMD (Single Instruction Multiple Data Streams), MISD (MultipleInstructions Single Data Stream), MIMD (Multiple Instructions Multiple DataStreams) How to use coding tools Create, review and execute unit test cases Corrective and Preventive actions for problems and defects can improve future designs Measure and Optimize performance of algorithm Deployment of the Models





Module A: SQL: DATABASE QUERY PROCESSING

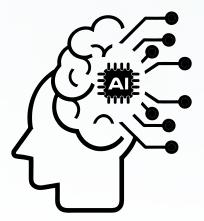
RDBMS Principals Install a DB Engine SQL syntax and Data types Operators, Expressions, Comments Data Definition Language (DDL) Data Manipulation Language (DML) Grant and Revoke SQL Functions (Sum, Count, Avg etc) Joins (self, left, right, full outer) Queries and Sub Queries SQL Clauses SQL Clauses SQL Window functions SQL Real time examples SQL live Practice Session



B. DEEP LEARNING TOPICS / AI (Artificial Intelligence)

Part 1: Introduction

- L01: Introduction to deep learning
- L02: The brief history of deep learning
- L03: Single-layer neural networks: The perceptron algorithm
- Part 2: Mathematical and computational foundations
- L04: Linear algebra and calculus for deep learning
- L05: Parameter optimization with gradient descent
- L06: Automatic differentiation with PyTorch
- L07: Cluster and cloud computing resources
- Part 3: Introduction to neural networks
- L08: Multinomial logistic regression / Softmax regression
- L09: Multilayer perceptrons and backpropration
- L10: Regularization to avoid overfitting
- L11: Input normalization and weight initialization
- L12: Learning rates and advanced optimization algorithms
- Part 4: Deep learning for computer vision and language modeling





C. Generative AI & Prompt Engineering with ChatGPT-4

Introduction to foundation Models Architecture of GPT-X Version Transformers Architecture in detail Prompt Engineering Open Source (LLM'S) Fine - Tuning open - AI models TEXT, Image, Audio Processing using Gen - AI

Tools

ChatGPT Llama 2 PALM 2 Mid Journey Images, DALL - E3 Mistral - 7B Azure open Al Gemini Al Project: Chatbots Specific to Domain

LLM use Cases:

Train your own LLM from Scratch like GPT-3.5 Develop your own ChatGPT from Scratch Develop your own LLM application using Prompt Engineering RAG Stable Diffusion Models

MLOps:

Intro to MLOps Experiment Tracking in MLOps Orchestration Deployment Monitoring Best Practices Project





Communication Skills

Roots of	LSRW	Four Pillars of the		
Communication	7 Cs of Communication	English Language		
	Parts of Speech			
Roots of Grammar	Sentence Structure Development	Mastering Helping		
	Tense Logic	Verb And Main Verb		
	Worksheet Sessions			
	Vocabulary Development			
	Usage of words			
Speech Intelligence	Group Discussions			
op 0000180000	JAMS			
	Debates Public Speaking			
	Imagination and Innovation Training			
Dorconality	Centralized Brain Storming			
Personality	Problem Solving Skills			
Development	Desiion Making			
	<u>_</u>			
	Time Management			
Mangement Skills	Team Building			
	Task Management			
	Leadership Skills			
	Employbility			
	Think like a Professional			
Interview Skills	Clearing HR Rounds			
	Salary Negotiation			
	Bond Negotiation			
	Research Skills			
	Public Speaking	Dream Company		
Presentation Skills	Visualization	Reading Skills		
Tresentation skins	White Board Presentation	Comprehension		
	Mastering Powerpoint My Dream Company Research	Skills		
	Content Creation			
	Mind Mapping			
	Role plays			
Constanti it	Mock Interview on the Hot Seat			
Creativity	Listening Skills			
Skills	Critical Thinking			
	Thought Analysis / Prioritization			
	SWOT Analysis			



«APTITUDE & REASONING»

Arithmetic

- ⇒ Problems on Numbers, Simplification
- ⇒ Equations
- ⇒ LCM & HCF and Fractions
- ⇒ Average
- ⇒ Ratio & Proportion
- Problems on Ages
- ⇒ Alligation & Mixtures
- ⇒ Percentages
- ⇒ Profit and Loss
- ⇒ Time and Work,
 - Chain Rule, Pipes & Cisterns
- ⇒ Time and Distance
- Problems on Trains
- ⇒ Boats and Streams
- ⇒ Simple and Compound Interest
- ⇒ Problems on Areas
- ⇒ Calender
- ⇒ Clocks
- ⇒ Permutations and Combinations
- ⇒ Probability
- Data Interpretation

Reasoning

- ⇒ Puzzles
- ⇒ Blood Relations
- Coding and Decoding
- \Rightarrow Ranking test,
- ⇒ Seating arrangement
- ⇒ Series (numeric and alpha numeric)
- ⇒ Data Sufficiency



NO.#1 JOB ORIENTED IN HYDERABAD PROGRAM

2024 CALENDAR

	January											
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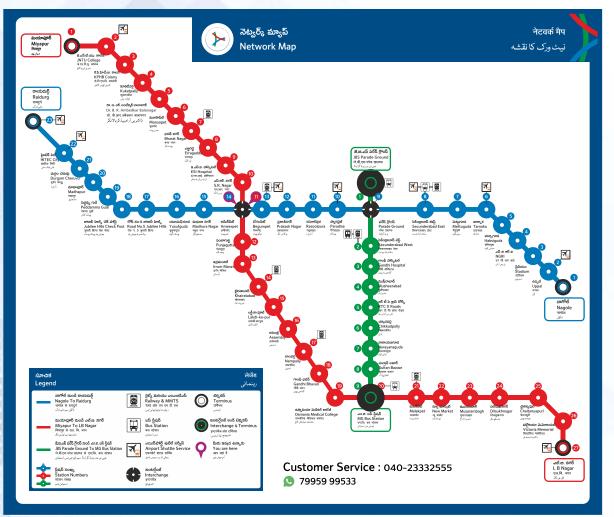
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December											
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Experienced Industry Faculty | Placement Assistance

Our Students Are Placed In

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		brillio	CGI	cisco		amazon
CLOUD9	CloudCover	Coforge	Cognizant	Convergytics		Medtronic
log databricks	dataflex		Deloitte.		Foray	STIC Soft When you need the results
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Infosys	OLeg <u>a.o</u>		🧼 Mindtree		photon	meslová
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