

Full Stack AIML DATA SCIENCE with GENAI ENGINEERING

25-35 LIVE PROJECTS HANDS ON



Why Choose us?

- ✓ Mock Interviews
- ✓ Resume Building
- ✓ 1:1 Career Mentorship
- ✓ Industry Ready Curriculum

ABOUT TRAINER

Subba Raju (Subba Raju Sir) Koraseeka



TRANSFORMING PROFESSIONALS INTO AI INNOVATORS

CERTIFICATIONS & CREDENTIALS

- Microsoft Certified Data Scientist & Co-pilot Engineer
- Google Certified Gen-AI Engineer
- Certified Pythonista Programmer
- Certified AI in Testing (ISTQB)
- Certified in GenAI & Agentic AI Engineering (Google, Microsoft, IITG)

SUBBA RAJU SIR

With over 24 years of IT experience and an M.Sc. in Computer Science from Manipal University, Subba Raju Sir is a leading trainer in Data Science, Prompt Engineering, LLMs, Generative AI, Agentic AI, and Autonomous Testing (AI). He emphasizes hands-on, industry-oriented learning that bridges the gap between academic concepts and real-world applications.

SPECIALTIES & EXPERTISE:

- 👉 DATA SCIENCE, AI, AND GENERATIVE AI
- 👉 PROMPT ENGINEERING & AGENTIC AI SOLUTIONS
- 👉 PYTHON PROGRAMMING & AI TESTING
- 👉 CORPORATE & ACADEMIC TRAINING (250+ HOURS COURSES)
- 👉 MENTORING PROFESSIONALS FOR CAREER GROWTH IN AI



Reviews

Full Stack AIML DATA SCIENCE with GENAI ENGINEERING



Vamsi Bhushan



I enrolled in the Full Stack AIML & GenAI Engineering course at Coding Master, and it completely transformed my understanding of AI. Subba Raju sir explains even the toughest concepts with such simplicity that anyone can follow. The hands-on projects made me feel industry-ready. Truly the best learning experience I've ever had!



Suresh Rajana



Starting as a complete beginner, I was nervous about learning AI. But Coding Master changed everything! The way Subba Raju sir teaches—from fundamentals to advanced GenAI apps—is unbelievably clear. Today, I can build my own AI models confidently. Highly recommended!



Pritam Deb



This course exceeded my expectations! It covers AIML, Data Science, and Generative AI with real-time use cases. The live sessions, projects, and mentorship felt like working inside a tech company. If you want a future-proof career, this course is a game changer.



Ejaz Ahmed



The best decision of my career! The curriculum is updated, industry-focused, and taught with real examples. Subba Raju sir makes complex topics feel simple. I now have a strong portfolio and confidence to crack interviews.



+91-96669 56556



info@codingmasters.in



codingmasters.in

Module-1: CORE PYTHON CODING

- ✓ Why Python for DATA World?
- ✓ Introduction to Introduction
- ✓ Python Data Structure: Lists, Tuple, Set and Dictionary
- ✓ Python Control Structures.
- ✓ Python Functions and Methods
- ✓ Exceptions and Files
- ✓ Iterators, Decorators and Namespaces
- ✓ Practice Questions in Python and Mocks
- ✓ Live Mini Application implementation on BFSI Domains
- ✓ Python OOPs and Advanced Coding
- ✓ Set of coding questions for interviews.



Real Time Use Cases



5-Mini Projects on Python

Module-2: ADVANCED PYTHON CODING

1. NUMPY
2. PANDAS
3. SCIPY
4. MATPLOTLIB
5. SEABORN
6. Scikit-learn, Tensor Flow and Keras
7. Pytorch



Real Time Use Cases



5-Mini Projects on Python

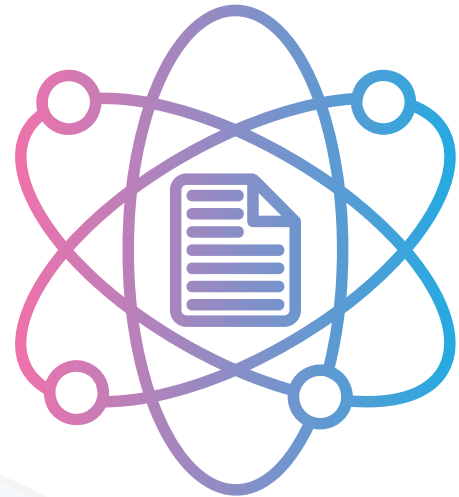


MODULE-3: MATHEMATICS for DATA SCIENCE

1. Statistics
2. Probability
3. Linear Algebra
4. Calculus

✓ **Real Time Use Cases**

✓ **5-Mini Projects on Python**



MODULE4: Machine Learning for DATA SCIENCE

1. Fundamentals of Machine Learning

- ✓ Definition of Machine Learning
- ✓ AI vs ML vs Deep Learning
- ✓ Types of Data (Structured, Unstructured, Semi-structured)
- ✓ Overfitting and Underfitting
- ✓ Bias-Variance Tradeoff
- ✓ Model Evaluation Basics
- ✓ Train/Test Split and Cross Validation

2. Advanced Foundations

- ✓ Regularization (L1, L2, Dropout, Early Stopping)
- ✓ Model Complexity and Generalization
- ✓ Feature Engineering and Feature Selection
- ✓ Handling Imbalanced Data (SMOTE, ADASYN)
- ✓ Hyperparameter Tuning (Grid Search, Random Search, Bayesian Optimization)
- ✓ Interpretability of Models
- ✓ Data Leakage and Prevention



3. Supervised Learning Algorithm

- ✓ Linear Regression – Cost Function, Gradient Descent
- ✓ Logistic Regression – Sigmoid Function, Decision Boundary
- ✓ Decision Trees – Entropy, Information Gain, Gini Index
- ✓ Random Forests – Bagging, Feature Importance
- ✓ Support Vector Machines (SVM) – Margins, Kernels
- ✓ Naive Bayes – Bayes Theorem, Assumptions
- ✓ K-Nearest Neighbors (KNN) – Distance Metrics, Choosing k
- ✓ Boosting Methods – AdaBoost, Gradient Boosting, XGBoost



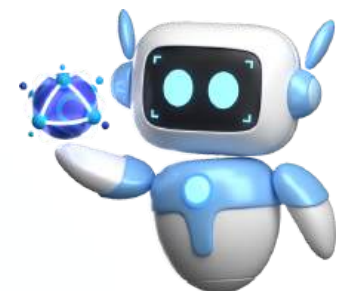
4. Unsupervised Learning Algorithms

- ✓ Clustering – K-Means, Hierarchical, DBSCAN
- ✓ Dimensionality Reduction – PCA, LDA, t-SNE, UMAP
- ✓ Gaussian Mixture Models
- ✓ Association Rule Learning – Apriori, FP-Growth
- ✓ Anomaly Detection Techniques
- ✓ Applications of Unsupervised Learning (Market Basket Analysis, Customer Segmentation)



More Topics

- ✓ Ensemble Learning (Bagging, Boosting, Stacking)
- ✓ Transfer Learning
- ✓ Reinforcement Learning Basics (MDPs, Q-Learning)
- ✓ Federated Learning



10 Mini Projects on Python + Advanced Python + Mathematics + ML

MODULE4: 5: DEEP LEARNING for DATA SCIENCE

Part 1: Basics

1. Introduction to Machine Learning vs Deep Learning
2. Neural Networks Fundamentals
3. Perceptron and Multi-Layer Perceptron
4. Activation Functions (ReLU, Sigmoid, Tanh, Softmax)
5. Loss Functions (MSE, Cross-Entropy)
6. Gradient Descent and Backpropagation
7. Overfitting and Underfitting
8. Regularization (L1, L2, Dropout)
9. Optimization Algorithms (SGD, Momentum, RMSProp, Adam)
10. Evaluation Metrics (Accuracy, Precision, Recall, F1-Score)



Part 2: Advanced

1. Convolutional Neural Networks (CNNs)
2. Pooling Layers and Feature Maps
3. Recurrent Neural Networks (RNNs)
4. Long Short-Term Memory (LSTM)
5. Gated Recurrent Units (GRUs)
6. Word Embeddings (Word2Vec, GloVe)
7. Sequence-to-Sequence Models
8. Attention Mechanisms
9. Transfer Learning
10. Data Augmentation Techniques



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MODULE 6:- Natural Language Processing (NLP)

Part 1: Basics

1. Introduction to Natural Language Processing
2. Text Preprocessing (Tokenization, Lemmatization, Stemming)
3. Stopwords and Vocabulary
4. Bag of Words Model
5. TF-IDF Representation
6. n-Grams and Language Models
7. Part-of-Speech Tagging
8. Named Entity Recognition (NER)
9. Syntactic Parsing
10. Word Embeddings Overview

Part 2: Advanced

1. Distributional Semantics
2. Word2Vec: CBOW and Skip-gram
3. GloVe Embeddings
4. FastText Representations
5. Sequence Labeling Tasks
6. Text Classification Methods
7. Topic Modeling (LDA, NMF)
8. Sentiment Analysis Techniques
9. Machine Translation Basics
10. Speech Recognition Fundamentals



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Module 7 :- Practical Training & Projects

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- A stylized illustration of a person with short reddish-brown hair, wearing a purple long-sleeved shirt and black pants. They are holding a large orange gear with a red star in the center. Above them are two other gears: a blue one and a smaller orange one. To the left is a glowing yellow lightbulb with a black filament. The background is white with a few small stars.

Module 8:- Research and Development

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MODULE 9

Ready for job

Build a strong resume, practice interviews, and get placement support to kickstart your career confidently.



LEARN THE SKILLS BUILD REAL PROJECTS. GET INTERVIEW READY



RESUME BUILDING



MOCK INTERVIEWS



Q&A SESSIONS



HR INTERVIEW QUESTIONS



PLACEMENT ASSISTANCE

**Bhavya Krishna Residency,
Flat No: 404, OPP: Siddartha Degree
College, Ameerpet Rd, Nagarjuna
Nagar colony
Yella Reddy Guda,
HYDERABAD-500073**

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Contact Us



Phone Number:

+91-96669 56556



Website:

codingmasters.in

Our Recent Placed Students



At **Coding Masters**, our faculty team comprises talented and experienced professionals with several decades of real-world industry experience. Our teaching style is tailored to meet **industry requirements**, ensuring no wasted effort or opportunity for learners. We are dedicated to empowering aspiring professionals with the skills they need to excel in the ever-evolving tech landscape. Known for offering the best **Data Science training in Hyderabad**, Coding Masters blends innovation, hands-on learning, and industry relevance.

Our mission is to bridge the gap between **academic knowledge and industry** expectations by providing high-quality training in **Data Science, AI, Machine Learning**, and more. Guided by experts like **Subba Raju Sir**, every student receives personalized mentorship and a transformative learning experience.