

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.



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Module-1: PYTHON PROGRAMMING FOUNDATIONS

Master Python from fundamentals to production-level coding.

- Python installation & environment setup
- Jupyter Notebook, VS Code, Google Colab
- Variables, Operators, Data Types, Type Conversion
- Loops, Conditional Statements
- Functions, Arguments, Scope, Lambda
- Modules & Packages
- Error & Exception Handling
- File handling: CSV, JSON, text, binary
- Logging, Debugging & Best Coding Practices
- Pickling & Unpickling

Python OOPs:

- Classes, Objects, Constructors
 - Inheritance, Polymorphism
 - Magic methods
 - Decorators
 - Class, Static & Instance Methods
 - Abstract Classes
-
- Iterators & Generators



Module-2: PYTHON DATA STRUCTURES

Deep understanding of Python's core data containers.

- **Lists:** indexing, slicing, sorting, nested lists
- **Sets:** hashing, uniqueness, operations
- **Tuples:** immutability, packing/unpacking
- **Dictionaries:** key–value modeling, nested dicts
- **List/Dict comprehension**
- **Mutable vs Immutable types**

Module-3: NUMPY, PANDAS & SCIENTIFIC COMPUTING

Efficient Data Handling, Numerical Operations & Data Manipulation.

NumPy

- **Arrays, vectorization, broadcasting**
- **Mathematical & statistical operations**
- **Reshaping, slicing, filtering**
- **Matrix operations, diagonals, trace**



Pandas

- **Series & DataFrames**
- **Handling missing values**
- **Sorting, filtering, grouping**
- **Merging, joining, and concatenation**
- **MultiIndexing & Pivot tables**
- **Working with large datasets**

SciPy & Statsmodels

- **Statistical functions**
- **ANOVA, regression modelling**
- **Time series decomposition**



Module-4: DATA VISUALIZATION

Transform Raw Data Into Powerful Visual Insights.

Matplotlib & Seaborn

- **Line, bar, scatter, histogram, and pie charts**
- **Heatmaps, distribution plots, pair plots**
- **3D plots & advanced customization**
- **Multi-plot dashboards**
- **Data storytelling principles**

Module-5: MATHEMATICS & STATISTICS FOR DATA SCIENCE

Strong Mathematical Foundation for ML & AI Algorithms.

Mathematics

- **Linear Algebra: vectors, matrices, eigenvalues**
- **Matrix operations & transformations**
- **Calculus: derivatives, partial derivatives**
- **Optimization basics**

Statistics

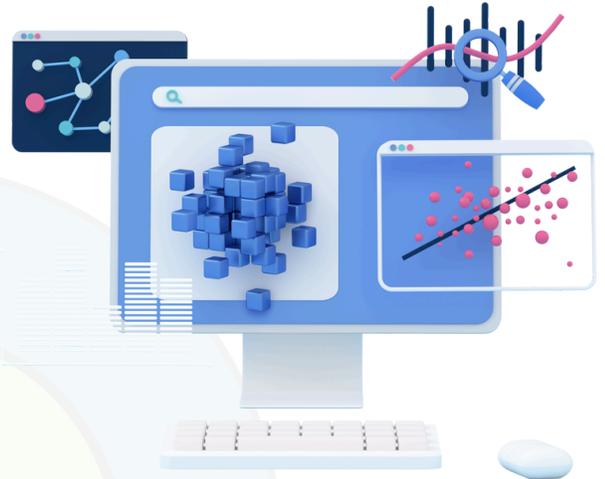
- **Descriptive & inferential statistics**
- **Probability theory & Bayes' theorem**
- **Hypothesis Testing: Z, T, Chi-square, ANOVA**
- **Confidence intervals**
- **Correlation & Regression**
- **Skewness & Kurtosis**
- **Entropy & Information Gain**

Module-6: SQL & DATABASE MANAGEMENT



Master Relational Database Operations and Querying.

- **DBMS vs RDBMS introduction**
- **SQL Commands: DDL, DML, DCL, TCL**
- **CRUD operations**
- **Joins: inner, left, right, full, cross, self**
- **GroupBy, Having, OrderBy, Limit**
- **Subqueries, Views, Indexing**
- **Window functions: Rank, Lead, Lag**
- **Query optimization basics**



Module 7: EXPLORATORY DATA ANALYSIS (EDA)

Comprehensive Data Examination For Insights And Patterns.

- **Univariate, Bivariate & Multivariate analysis**
- **Outlier detection (IQR, Z-score)**
- **Feature Engineering**
- **Feature Scaling & Encoding**
- **Data wrangling & cleaning**
- **Visual EDA with Seaborn & Matplotlib**



Module- 8: MACHINE LEARNING

Complete ML Ecosystem From Algorithm Theory to Deployment.

Supervised Learning

- **Linear & Logistic Regression**
- **KNN, Naive Bayes, SVM**
- **Decision Trees, Random Forest**

Advanced ML Models

- **Gradient Boosting**
- **AdaBoost, XGBoost, LightGBM**

Unsupervised Learning

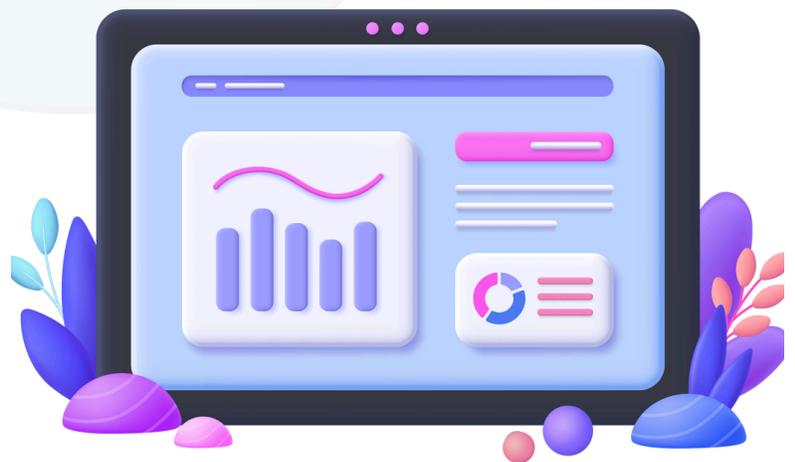
- **Clustering: K-Means, Hierarchical, DBSCAN**
- **PCA, t-SNE, Dimension Reduction**

Recommendation Engines

- **User-based & Item-based Filtering**

Model Evaluation

- **MAE, MSE, RMSE**
- **Precision, Recall, F1**
- **ROC, AUC**



Module- 9: END TO END ML PIPELINE

- Train-test split
- Handling missing values
- Feature selection
- Hyperparameter tuning (GridSearchCV, RandomizedSearchCV)
- Pickle/Joblib model saving
- Model deployment using Flask

Module- 10: DEEP LEARNING & NEURAL NETWORKS

Modern AI With Neural Network Architectures.

ANN (Artificial Neural Networks)

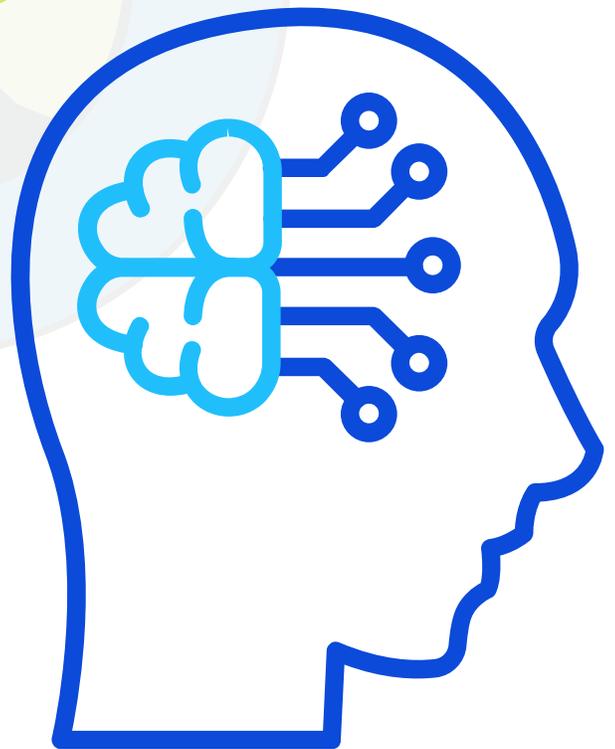
- Forward & backward propagation
- Activation functions
- Loss functions
- Optimizers

CNN (Computer Vision)

- Convolution, pooling, flattening
- Building image classifiers
- Transfer learning (VGG, ResNet, MobileNet)
- Object detection (YOLO & OpenCV)

RNN, LSTM, GRU

- Sequence learning
- Encoder–decoder architecture



Module- 11: NATURAL LANGUAGE PROCESSING (NLP)

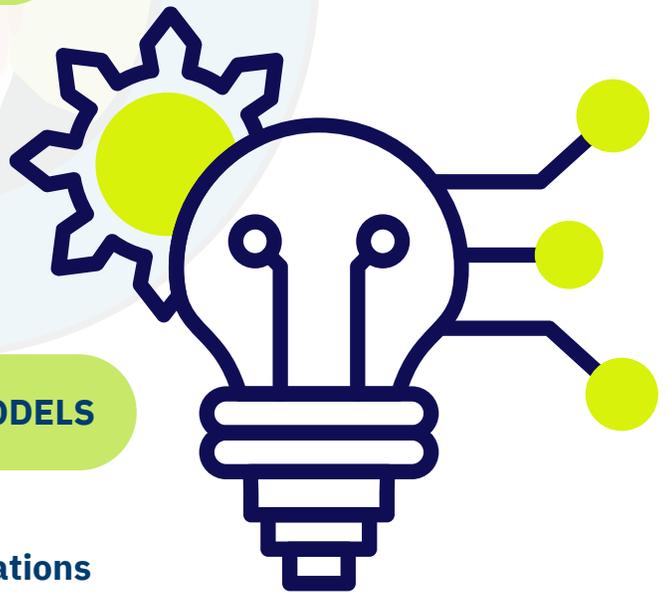
- Tokenization, Stemming, Lemmatization
- Bag of Words, TF-IDF, n-grams
- Word2Vec, GloVe
- Topic modeling (LDA)
- Sentiment analysis
- Named Entity Recognition
- Transformer models & BERT

Module- 12: TIME SERIES ANALYSIS

- Trend, seasonality, noise
- ACF, PACF
- AR, MA, ARIMA, SARIMAX
- LSTM for time-series forecasting
- Prophet Model

Module- 13: GENERATIVE AI & LARGE LANGUAGE MODELS

- Introduction to OpenAI & LLM-based applications
- Prompt engineering & optimization
- Text summarization, classification & content generation
- Retrieval augmented generation (RAG)
- Using PaLM API, Google MakerSuite, Azure ML
- Building AI-powered apps



Module- 14: POWER BI FOR BUSINESS INTELLIGENCE

- Data modeling concepts
- Importing & transforming data
- DAX formulas & measures
- Building dashboards & reports
- Filters, slicers, hierarchies
- Drill down & navigation
- Publishing & sharing

PROGRAM OUTCOMES

Learners will be able to:

- Build complete data science pipelines
- Work confidently with Python, SQL, ML & AI
- Deploy ML & deep learning models
- Handle real-time data projects
- Create dashboards & analytical reports
- Build applications using Generative AI
- Work as Data Scientist, ML Engineer, AI Engineer, Analyst



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

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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.