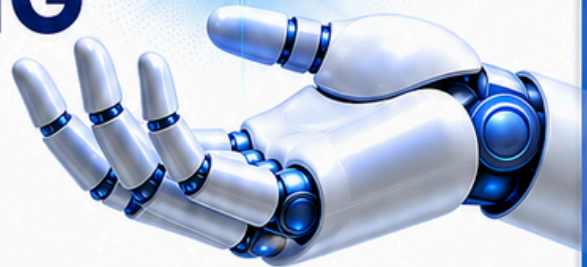
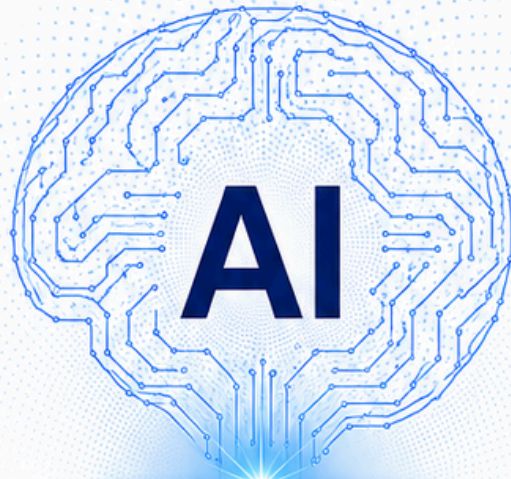


REAL-TIME ADVANCED AI ENGINEERING

Data Science, Generative AI,
Large Language Models (LLMs),
Prompt Engineering & Agentic AI



Real-Time
Projects



Mock
Interviews



Resume
Building



1:1 Career
Mentorship



Industry
Ready

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RECENTLY OUR STUDENTS HIRED

— WITH HIGHEST PACKAGES —



S. Veeru
Role : GenAI Engineer
Company : TCS
Package : 86 LPA



P. Prasanna
Role : GenAI Developer
Company : BCBS
Package : 78 LPA



P. Raja
Role : GenAI Developer
Company : Persistent Systems
Package : 35 LPA



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REAL FEEDBACK



Real People. Real Journey. Real Success.



**Our Students' Hard Work. Our Pride.
Their Dreams. Our Mission.**



- S. Veeru
- Role : GenAI Engineer
- Company : TCS
- Package : 86 LPA



Coding Masters changed my life completely. The practical training, real-time projects, and mentorship helped me build strong skills and confidence. I'm truly grateful to Subba Raju Sir for his guidance and constant support. Consistency, focus, and never giving up made my dream a reality!



- P. Prasanna
- Role : GenAI Developer
- Company : BCBS
- Package : 78 LPA



The trainers at Coding Masters guided me at every step of my journey. From basics to advanced AI, the learning path was perfect and easy to follow. I especially thank Subba Raju Sir for his valuable guidance, motivation, and belief in me. My hard work today is the result of their constant support and my dedication!



- P. Raja
- Role : GenAI Developer
- Company : Persistent systems
- Package : 35 LPA



Coding Masters gave me the right knowledge and practical exposure to crack interviews. I learned a lot by building projects and solving real-world problems. I am really thankful to Subba Raju Sir for his mentorship and for pushing me to do my best every day. Believe in yourself, work hard in silence, and let your success be your noise!



≧ You Can Be Next! ≦

**Your Hard Work Today,
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ABOUT TRAINER



K SubRaj Sir

Lead Trainer

K SubRaj Sir

**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, ITG)



EXPERIENCE & EXPERTISE

With over **25+ years** of IT experience and an M.Sc. in Computer Science from Manipal University, **KSubRajSir** 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



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ACADEMIC TRAINING
(250+ HOURS COURSES)



MENTORING
PROFESSIONALS FOR
CAREER GROWTH IN AI



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Reviews

(Advanced AI Engineering Program)



Janumpally Anilkumar



I enrolled in the Advance AI Engineering course, and it completely changed the way I approach AI development. Subba Raju sir explains even complex concepts with great clarity. The hands-on projects with modern tools and real-world GenAI applications boosted my confidence and practical skills.



Manoj Kumar



The Advance AI Engineering course is well-structured and practical, covering key AI concepts, modern GenAI tools, and real-world applications in a clear and simple way. Subba Raju sir's teaching is easy to follow, making even complex topics understandable. A great course for building practical GenAI knowledge and industry-ready skills.



U. Lm Yadav



I joined the AI Engineering course with very little technical knowledge, but now I can confidently work with modern AI tools and build practical AI applications. Subba Raju sir made the entire learning journey simple, practical, and engaging, helping me understand complex AI concepts and apply them in real-world projects.



Vamshi Vinnie



The best part of the AI Engineering course is the hands-on practical exposure. We didn't just learn AI concepts—we worked on real-world GenAI projects using modern tools and techniques that are highly relevant in today's industry. Subba Raju sir explains even complex topics in a simple and easy-to-understand way.



PYTHON :-

- | -Python Basics** :- Variables, Data Types, Type Casting, Input/Output, Operators, Strings
- | -Data Structures** :- List, Tuple, Set, Dictionary
- | -Control Flow** :- if/elif/else, for Loop, while Loop, break, continue, pass
- | -Comprehensions** :- List, Dictionary, Set Comprehension
- | -Functions** :- Functions, Arguments, Return, Default Arguments, *args, **kwargs, Lambda
- | -Built-in Functions** :- len(), range(), enumerate(), zip(), map(), filter(), sorted(), min(), max(), sum()
- | -File Handling** :- TXT, CSV, JSON, Read, Write, Append, with open()
- | -Modules & Packages** :- import, Modules, Packages, pip, Virtual Environment, requirements.txt
- | -Oops** :- Class, Object, Constructor, Methods, Inheritance, Polymorphism, Encapsulation, Abstraction

Projects:-

1. Library Management System
2. Expense Tracker



MATHEMATICS for DATASCIENCE & GENAI

Statistics

- Mean
- Median
- Mode
- Variance
- Standard Deviation
- Probability

Linear Algebra

- Vectors
- Matrices
- Dot Product
- Matrix Multiplication



Calculus

Derivatives

Gradient Descent

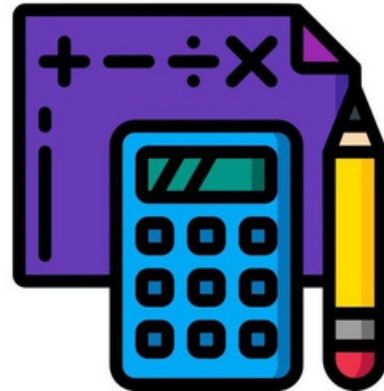
Optimization

Basic Mathematics

Percentage

Logarithms

Exponents



PYTHON LIBRARIES :-

Python Libraries

NumPy

Numerical Computations



Pandas

Data Analysis & Manipulation



Matplotlib

Data Visualization



Seaborn

Statistical Visualization

Projects:-

3. Sales Data Analysis Dashboard

4. IPL Data Analysis

EXPLORATORY DATA ANALYSIS :-

Machine Learning Project Flow

- **Load Data**
- **Understand Data**
- **Shape**
- **Columns**
- **Info**
- **Describe**
- **Data Cleaning**
- **Missing Values**
- **Duplicates**
- **Outliers**
- **Exploratory Data Analysis (EDA)**
- **Univariate Analysis**
- **Bivariate Analysis**
- **Correlation Analysis**
- **Visualization**
- **Feature Engineering**
- **Encoding**
- **Scaling**
- **Feature Selection**
- **Train-Test Split**
- **Model Building**
- **Model Evaluation**
- **Model Saving**



Data Analysis

Projects:-

3. Netflix Movies & TV Shows EDA

4. IRIS Data Analysis

MACHINE LEARNING :-

Supervised Learning

Regression

Linear Regression

Simple Linear Regression

Multiple Linear Regression

Polynomial Regression

Ridge Regression Lasso

Regression

Classification

Logistic Regression

Naive Bayes

K-Nearest Neighbors

(KNN) Decision Tree

Random Forest

Unsupervised Learning

Clustering

K-Means

DBSCAN

Hierarchical

Clustering

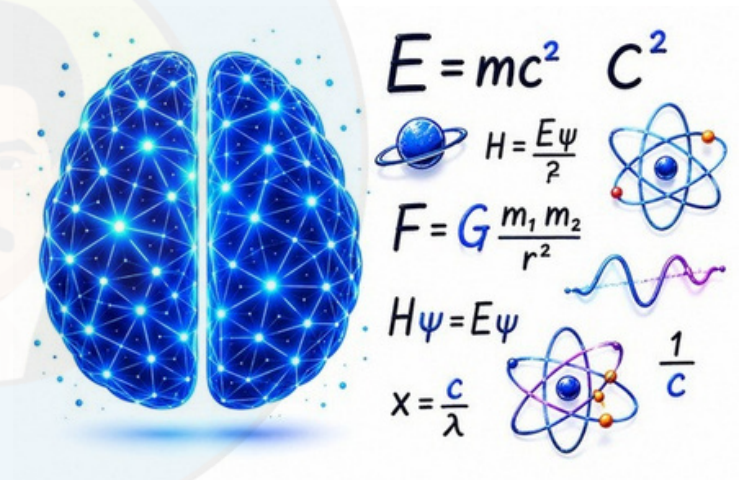
Dimensionality Reduction

PCA

t-SNE

Reinforcement Learning

Decision Making



Projects:-

7. House Price Prediction

8. Customer Churn Prediction

9. Loan Approval Prediction

DEEP LEARNING :-

Artificial Neural Networks (ANN)

- Neurons
- Forward Propagation
- Backpropagation
- Activation Functions

CNN

RNN

LSTM

NLP

Tokenization

Stemming

Lemmatization

Stop Words

Bag of Words

TF-IDF

Word Embeddings

Transformers

Self Attention

Multi-Head Attention

Encoder

Decoder

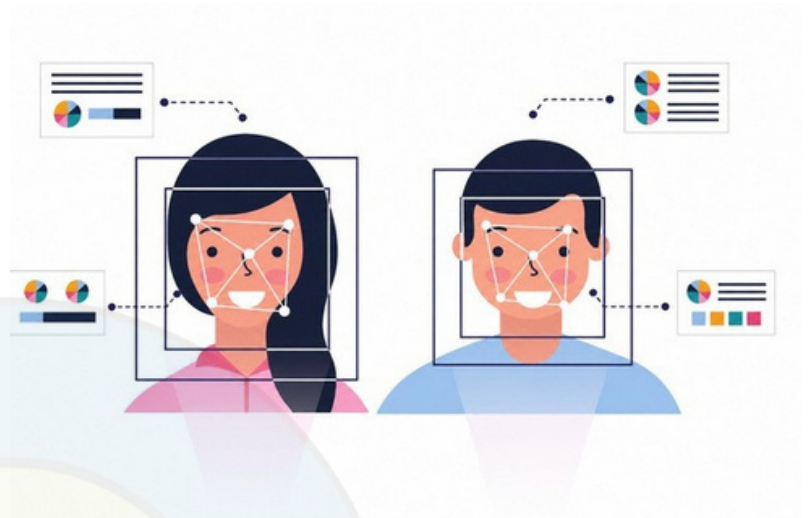
Large Language Models (LLMs)

GPT

BERT

Llama

Fine-Tuning



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Projects:-

- 10. Handwritten Digit Recognition
- 11. Dog vs Cat Image Classifier

NLP projects:

- 12. Sentiment Analysis System
- 13. Resume Parser



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PROMPT ENGINEERING :-

Prompt Basics

Instructions

Context Output

Format

Prompting Techniques

Zero-Shot Prompting

Few-Shot Prompting

Chain of Thought (CoT)

LangChain Prompts

PromptTemplate

ChatPromptTemplate

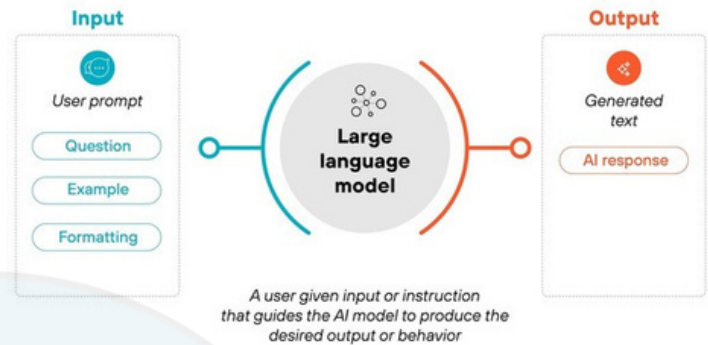
Role Prompting

Projects:-

14. AI Interview Question Generator

15. AI Resume Builder

Prompt engineering



HUGGING FACE :-

Models

Llama

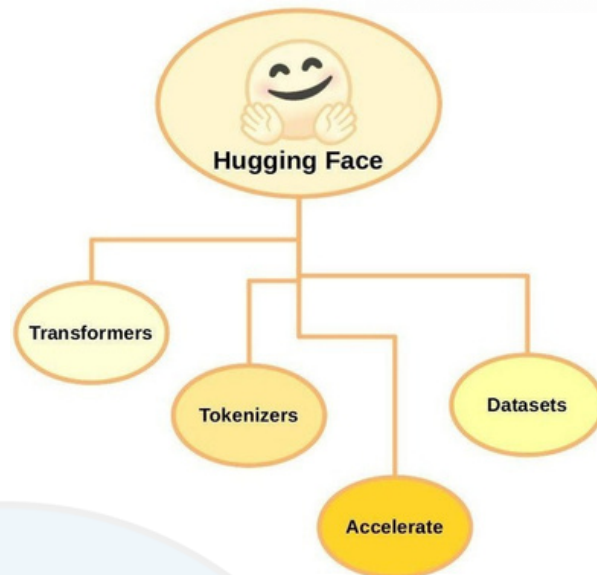
BERT

Mistral

Transformers



- Tokenizer Model
- Embedding Models
- Hugging Face Hub
- Spaces



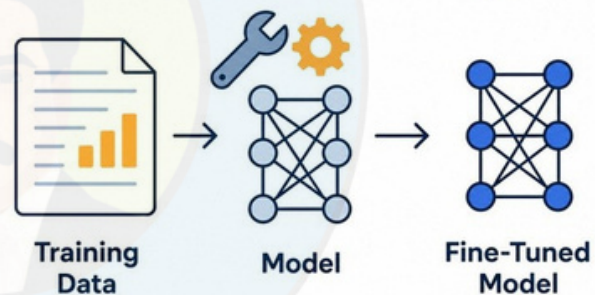
Project:-

16. Text Summarization App

Fine Tuning :-

- Pretrained Model
- Dataset
- Training
- Hyperparameters
 - Learning Rate
 - Batch Size
 - Epochs
- PEFT
 - LoRA
- Evaluation

What is Fine-Tuning?



LLM Fine-Tuning Process

- 1 Define goals
- 2 Gather data
- 3 Prepare data
- 4 Choose an LLM model to fine-tune
- 5 Fine-tuning process
- 6 Evaluate the tuned model
- 7 Adjust and improve

 Multimodal.

Project:-

17. Domain-Specific Chatbot (LoRA)

LANGCHAIN :-

- PromptTemplate
- ChatPromptTemplate
- LLMs
 - ChatGroq
 - ChatOpenAI
 - ChatOllama
- Output Parsers
- Document Loaders
- Text Splitters
- Embeddings
- Vector Stores
- Retrievers
- Chains
- Agents



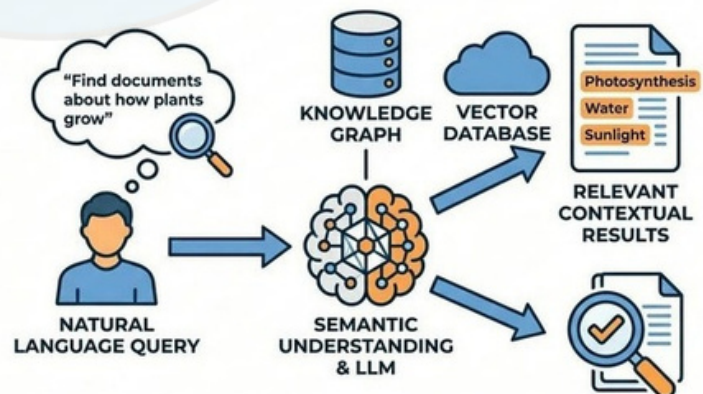
LLM + Connected Components



Project :-
21. Enterprise Knowledge Base Assistant

RAG :-

- Loaders
 - PyPDFLoader
 - TextLoader
 - WebBaseLoader
- Text Splitters
 - Chunking
- Embeddings



SEMANTIC SEARCH

Vector Database

- FAISS
- ChromaDB

Retriever

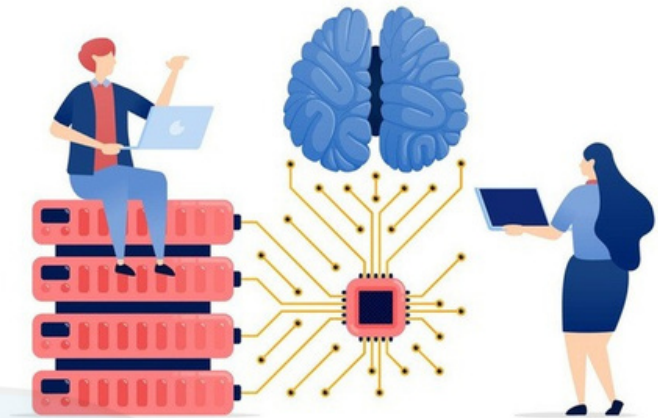
LLM

Projets :

18. AI Document Assistant

19. Multi-PDF RAG Chatbot

20. Research Paper Assistant



MCP (Model Context Protocol) :-

MCP Architecture

MCP Client

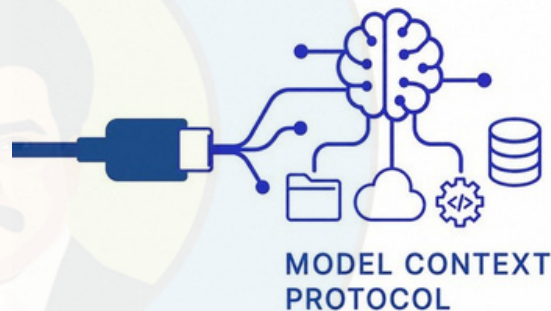
MCP Server

Tools

Resources

Prompts

Tool Calling



Model Context Protocol (MCP) Architecture

Project:-

22. MCP Tool Calling Assistant



LANGGRAPH :-

- State
- Nodes
- Edges
- Conditional Edges
- Workflow
- Memory
- Human-in-the-Loop
- Multi-Agent Systems

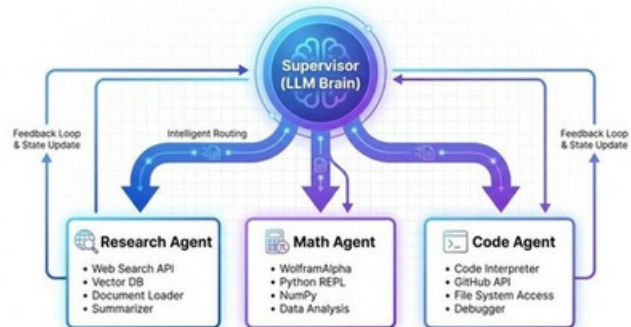
Project:-
23. Multi-Step Research Assistant

CREW AI :-

- Agents
- Tasks
- Tools
- Crew
- Process

Project:-
24. Multi-Agent Research Assistant

LangGraph Supervisor Architecture

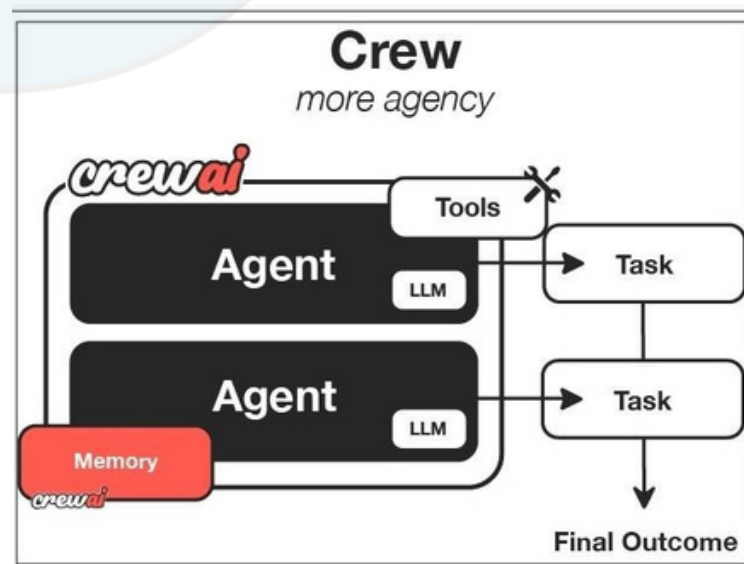


Project: AI Research Assistant Agent (Graph-Based Workflow)



Crew

more agency



AGENTIC AI :-

Reasoning

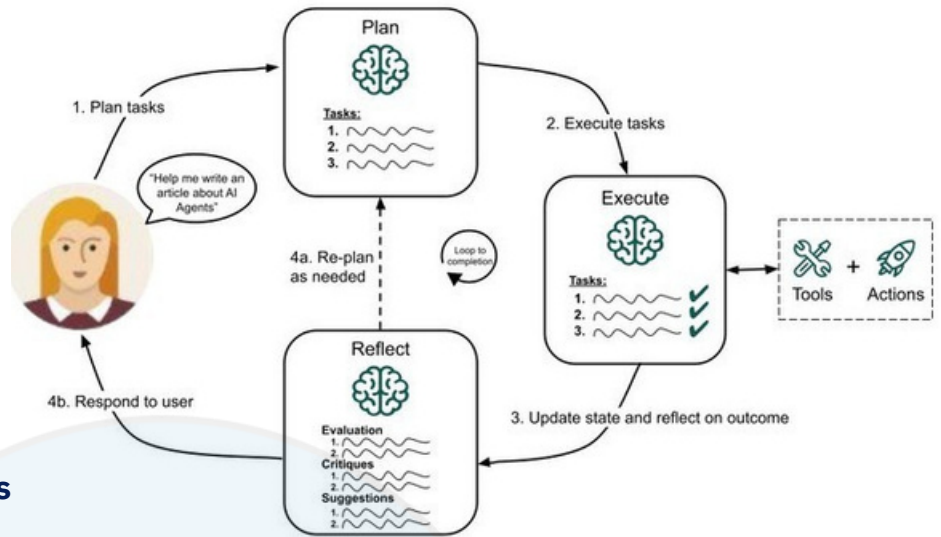
Planning

Tool Calling

Memory

Reflection

Multi-Agent Systems



Project:-

25. Autonomous AI Workflow Assistant

DEPLOYMENT AND DEVOPS :-

Git & GitHub

Clone

Pull

Push

Branching

Merge

Pull Requests

Docker

Dockerfile

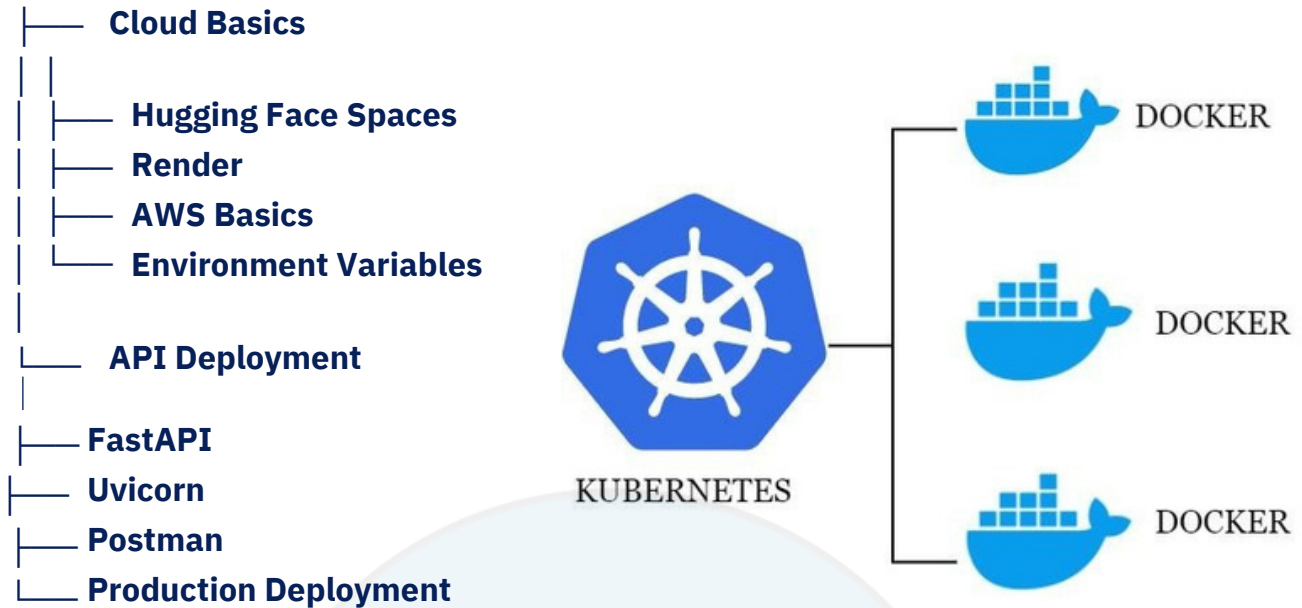
Image

Container

Docker Build

Docker Run





Project:-

Showing all the above projects in the cloud

AUTOMATION WORKFLOW & PRODUCTION ARCHITECTURE:-

- n8n
 - Workflow Automation
 - Triggers
 - AI Integrations
 - API Integrations
 - Scheduled Workflows
- Production Architecture**
- Microservices
 - Monolith vs Microservices
 - Service Communication
 - API Gateway
 - Scalable Systems
 - Independent Deployment
 - Fault Isolation



Projects:-

26.AI Customer Support Workflow 27.

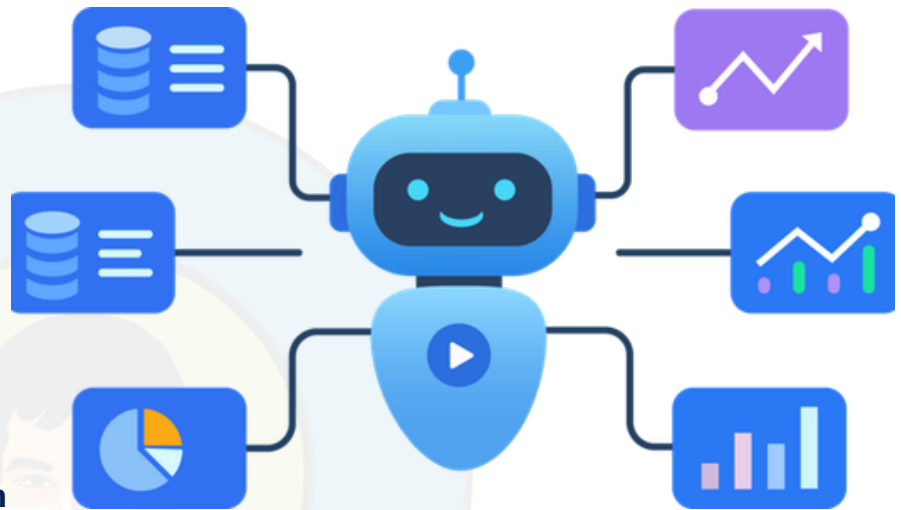
Multi-Agent Research Workflow

MLOPS & LLMOPS :-

- Model Serving
- Monitoring
- Logging
- CI/CD Basics
- Model Versioning
- Experiment Tracking

LLMOps

- Prompt Management
- Model Monitoring
- Cost Tracking Evaluation
- Observability
- Deployment Pipelines



Project:-

Showing all the above projects in the Cloud

YOUR AI ENGINEERING JOURNEY

From Python Fundamentals
to Advanced AI & Agentic Systems

“ A Step-by-Step
Learning Path to
Real-World Skills
and Career Success

*Same
Concepts
Real Careers*



*Turn Your
Learning into
Real Opportunities*

- 01  **Python & Programming Foundations**
Python Basics | Data Structures | Functions | OOP
File Handling | Modules & Packages
- 02  **Mathematics for AI**
Statistics | Probability | Linear Algebra | Calculus | Optimization
- 03  **Data Science**
NumPy | Pandas | Data Cleaning | EDA | Visualization
Feature Engineering
- 04  **Machine Learning**
Regression | Classification | Clustering | Ensemble Learning
Model Evaluation
- 05  **Deep Learning**
ANN | CNN | RNN | LSTM | Deep Learning Applications
- 06  **NLP & Transformers**
Text Processing | Tokenization | Embeddings
Attention Mechanism | Transformers
- 07  **Generative AI & LLMs**
LLM Fundamentals | GPT Models | Hugging Face | Model Inference
- 08  **Prompt Engineering**
Prompt Design | Role Prompting | Structured Output
Context Engineering
- 09  **RAG & Vector Databases**
Document Processing | Chunking | Embeddings
FAISS / ChromaDB | Retrieval | LLM
- 10  **AI Application Development**
LangChain | Tools | Function Calling | Memory | Real-world Applications
- 11  **AI Workflows**
LangGraph | CrewAI | Multi-Agent Systems | Agent Orchestration
- 12  **MCP (Model Context Protocol)**
MCP Fundamentals | Tools | Resources | AI Integration
- 13  **Agentic AI**
Goal Setting | Planning | Tool Use | Observe | Reflect | Re-plan
- 14  **Deployment & APIs**
FastAPI | Streamlit | Docker | Cloud Deployment | REST APIs
- 15  **MLOps / LLMops**
Model Monitoring | Evaluation | Versioning | Guardrails | Scalable Deployment



LEARN

Gain In-Demand Skills



BUILD

Work on Real Projects



DEPLOY

Create Real Impact



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Be Future Ready



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MEET K SubRaj Sir

Lead Trainer | Data Science & GenAI Expert

With **25+ years** of IT experience, KSubRajSir has trained thousands of students and working professionals, helping them build real skills and successful careers in AI.



K SubRaj Sir

Lead Trainer

Same
Knowledge
New Opportunities

“ Practical Learning
Real Skills
Better Careers

Areas of Expertise



Data
Science



Prompt
Engineering



LLMs &
Generative AI



Agentic AI



Autonomous
Testing (AI)



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Build Your Future

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through practical learning.

SCAN TO WATCH



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accenture

IBM

EY



Google

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Our Placed Students

From Learning to Earning!



K. Manikanta
Senior Software Engineer

Placed at
Saven Technology Pvt LTD

15 LPA

“The training and real-time projects at Coding Masters helped me build the right skills and crack my dream job!”



G. Venkata Teja
AI Engineer

Placed at
Sita Corp

3.5

“Great mentors, practical learning, and constant support. Coding Masters gave me the confidence to grow in the AI field.”



K. Naresh
Non-IT

Placed at
Wipro

3.7 LPA

“The hands-on projects and career guidance were excellent. Coding Masters helped me achieve my goals!”



V. Venkatesh
AI Engineer

Placed at
Sita Corp

3.5 LPA



K. Pravallika
AI/ML Engineer

Placed at
Salohi Technologies Pvt Ltd

3 LPA



M. Phanindra
Cyber Security Analyst

Placed at
Salohi Technologies Pvt Ltd

3 LPA



“Same Learning.
Brighter Futures.”



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Skills



Get
Placed



Achieve
Your Dreams



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