# VIJAY KUMAR CHIRUTHA SOFTWARE COURSES



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**VIJAY KUMAR CHIRUTHA**

**SOFTWARE COURSES**

Educating The World

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# Modules — Data Science With AI

## FOUNDATION MODULES

### Mathematics for Data Science

- Linear Algebra (vectors, matrices, eigenvalues)
- Calculus (optimization, gradients)
- Probability & Statistics
- Discrete Mathematics (optional but useful)

### Programming for Data Science

- Python (NumPy, pandas, matplotlib, seaborn)
- R (optional alternative)
- SQL (data querying and manipulation)
- Git/GitHub (version control)

### Data Handling & Visualization

- Data wrangling and cleaning
- Exploratory Data Analysis (EDA)
- Data visualization tools (Matplotlib, Seaborn, Plotly, Power BI, Tableau)

# Modules Data Science With AI

## CORE DATA SCIENCE MODULES

### MACHINE LEARNING

- Supervised Learning (Regression, Classification)
- Unsupervised Learning (Clustering, Dimensionality Reduction)
- Model Evaluation & Validation
- Scikit-learn, XGBoost, LightGBM

### DEEP LEARNING

- Neural Networks & Backpropagation
- Convolutional Neural Networks (CNNs)
- Recurrent Neural Networks (RNNs, LSTMs)
- Frameworks: TensorFlow, Keras, PyTorch

### NATURAL LANGUAGE PROCESSING (NLP)

- Text preprocessing and vectorization (TF-IDF, Word2Vec, Transformers)
- Sentiment analysis, summarization, chatbots
- Large Language Models (LLMs) like GPT, BERT

# Modules — Data Science With AI

## ADVANCED MODULES

### Big Data & Cloud Computing

- Hadoop, Spark, Kafka
- Cloud platforms: AWS, Azure, Google Cloud
- Data lakes, distributed computing

### Data Engineering

- ETL pipelines
- Data warehouses (Snowflake, Redshift, Big Query)
- APIs and real-time data processing

### MLOps & Model Deployment

- Model packaging (Docker, Flask, FastAPI)
- Continuous Integration/Deployment (CI/CD)
- Model monitoring and retraining

# Modules  Data Science With AI

## AI-SPECIFIC MODULES

### ARTIFICIAL INTELLIGENCE CONCEPTS

- Intelligent agents and search algorithms
- Game theory and decision-making
- Expert systems and knowledge representation

### REINFORCEMENT LEARNING

- Markov Decision Processes
- Q-Learning, Deep Q-Networks
- Applications in robotics, games, and control systems

### GENERATIVE AI

- Generative Adversarial Networks (GANs)
- Diffusion Models, VAEs
- Prompt Engineering, Fine-tuning LLMs

# Modules    Data Science With AI

## APPLICATION & DOMAIN MODULES

### Business & Data Analytics

- KPI analysis
- Forecasting & optimization
- Decision science & data storytelling

### Ethics & Responsible AI

- Bias, fairness, and transparency
- Explainable AI (XAI)
- Data privacy & governance (GDPR, CCPA)

### Capstone Project / Internship

- End-to-end data science or AI project
- Real-world datasets, deployment, and reporting

# OUR SERVICE

**WE ARE PROVIDING MULTIPLE SOFTWARE COURSES**

- DATA SCIENCE WITH AI
- DATA ANALYTICS WITH AI
- DATA ANALYST AND BUSINESS ANALYST WITH AI
- MANUAL TESTING AND SELENIUM WITH AI
- PYTHON FULL STACK WITH AI
- JAVA FULL STACK WITH AI
- DIGITAL MARKETING WITH AI
- TABLEAU + SQL WITH AI
- ORACLE, SQL, MYSQL
- EXCEL AND ADVANCED EXCEL WITH AI
- SAP [ALL MODULES]
- SALESFORCE
- GEN AI
- CYBER SECURITY WITH AI
- VIDEO EDITING COURSE
- SERVICE NOW
- MULESOFT
- AWS/AZURE DEVOPS
- MS OFFICE
- POWER APPS

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# About US



- We are Providing the Software Courses for both Online and Offline
- We have well Experienced and Real Time Trainers
- We give the best content to cover all your course syllabus and its practical knowledge
- We give 2 to 3 Assignments to our students which helps the more interactivity with course and its practical real time scenario knowledge
- We explains the 2 to 3 projects and letting the students to know to how to do real time projects once they get selected

# THANK YOU SO MUCH

**CONTACT US**

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