INTTRVU

Data Science & AI Certification Program

—With Interview Preparation and Generative AI

INTTRVU

Index

INTTRVU

About Founder

Rohit Mande
Founder, INTTRVU.AI
Ex Chief Data Scientist, Barclays

Click on the icon
To know more about founder

Hello, I am Rohit Mande, Founder and CEO of INTTRVU.ai. (Ex-Chief Data Scientist, Barclays) I have built and delivered multiple Data Science and AI projects in the last 10 years.

I am passionate about guiding people to a successful career transition. With this passion and a team of like-minded people, we have started INTTRVU.ai.

We have designed our Data Science and AI and Interview Preparation Programs based on the latest skillsets demanded by the industry. Our programs are highly practical-oriented with lots of hands-on learning, assignments, and projects.

I look forward to interacting with you during the program.

iNTTRVU

Founder's Career Journey

iNTTRVU

2023
Founder and CEO,
Inttrvu.AI

2021-2023
VP-Chief Data
Scientist,Barclays
BARCLAYS

2018-2021
AVP-Lead Data
Scientist,Barclays
BARCLAYS

2017-2018
Senior Data Scientist,
Cummins
Cummins

2014-2017
Data Scientist, AGT Group GmbH
Filed Patents based on research work
AGT international

2013-2015
MS from Technical
University of Darmstadt
TECHNISCHE
UNIVERSITÄT
DARMSTADT

2011-2013
Software Engineer
CISCO

2007-2011
B.E. E & TC

Contact us to know more-+91 77560 43707

iNTTRVU

Who is this Program for?

>> All working IT professionals

>> Students or working professionals with a bachelor's degree in BE/B.Tech (any branch), BCA/BSC/BBA/MBA, ME / M.tech / MCS, B.Sc / M.Sc Computers / Stats, Any suitable Graduation

Contact to know your eligibility-+91 77560 43707

iNTTRVU

Program Duration

Program Duration: 7 Months

Theory and Hands-on Exercises: **6 Months**

Capstone Projects and Interview Preparation: **1 Month**

This is How Your Learning Journey Will Progress

- **4 Months** Python, Machine Learning

- **1 Month** MLOps, Gen AI and AI Project Management

- **1 Month** SQL, PowerBI, Tableau

- **1 Month** Capstone Projects and Interview Preparation

»Batches

-Weekday and Weekend Batches

iNTTRVU

Why to learn Data Science and Gen AI?

In today's world, where information is key, data science has become an important field that helps organizations use data to make smart decisions and plan for the future.

Here are some key reasons why learning data science is valuable for professionals today:

Growing Demand for Data Expertise

The demand for data scientists is expected to grow 36% from 2023 to 2033, which is much faster than the average for all occupations. This growth is due to the increasing importance of data in every sector.

Strong Career Prospects and Competitive Compensation

By 2026, the demand for data scientists in India is expected to be over 1 million.
According to *Glassdoor*, a data scientist's annual salary starts from ₹8 lakh and can go up to around ₹90 lakh.

Address Real-World Challenges

Data scientists play a key role in addressing important challenges, such as improving healthcare, enhancing customer experiences, predicting market trends. Through data science, professionals can make a meaningful impact on complex issues.

Future-Proof Your Career

As technology continues to advance, data science will remain a critical field, allowing you to stay relevant in an evolving job market. Mastering data science skills will help you stay ahead of trends and future-proof your career.

Contribute to the AI and Innovation Ecosystem

Data science is foundational to advancements in artificial intelligence and automation. By learning data science, professionals gain the tools to participate in technological innovation, contributing to developments that shape our future.

Contact us to know more-+91 77560 43707

iNTTRVU

Program Highlights

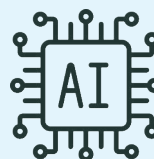|	
Live interactive classes	All sessions conducted by top Experts
20+ data science models built during program	7 Capstone projects including Generative AI & AI Agents
Placement Assistance	Access to class recordings for self-paced learning
1-1 guidance for any questions	Document with 300+ most asked questions and answers.
Mock Interviews	Detailed Feedback and plan of action to crack the interviews
Course completion certificate	Specialized Training in Generative AI & AI Agents

INTTRVU

Job Roles in Data Science

- 💼 Data Analyst
- 💼 Statistician
- 💼 AI Product Manager
- 💼 AI Program Manager
- 💼 Generative AI Engineer

- 💼 Data Scientist
- 💼 Machine Learning Engineer
- 💼 Data and Analytics Manager
- 💼 AI Agent Developer

Tools and Technologies

iNTTRVU
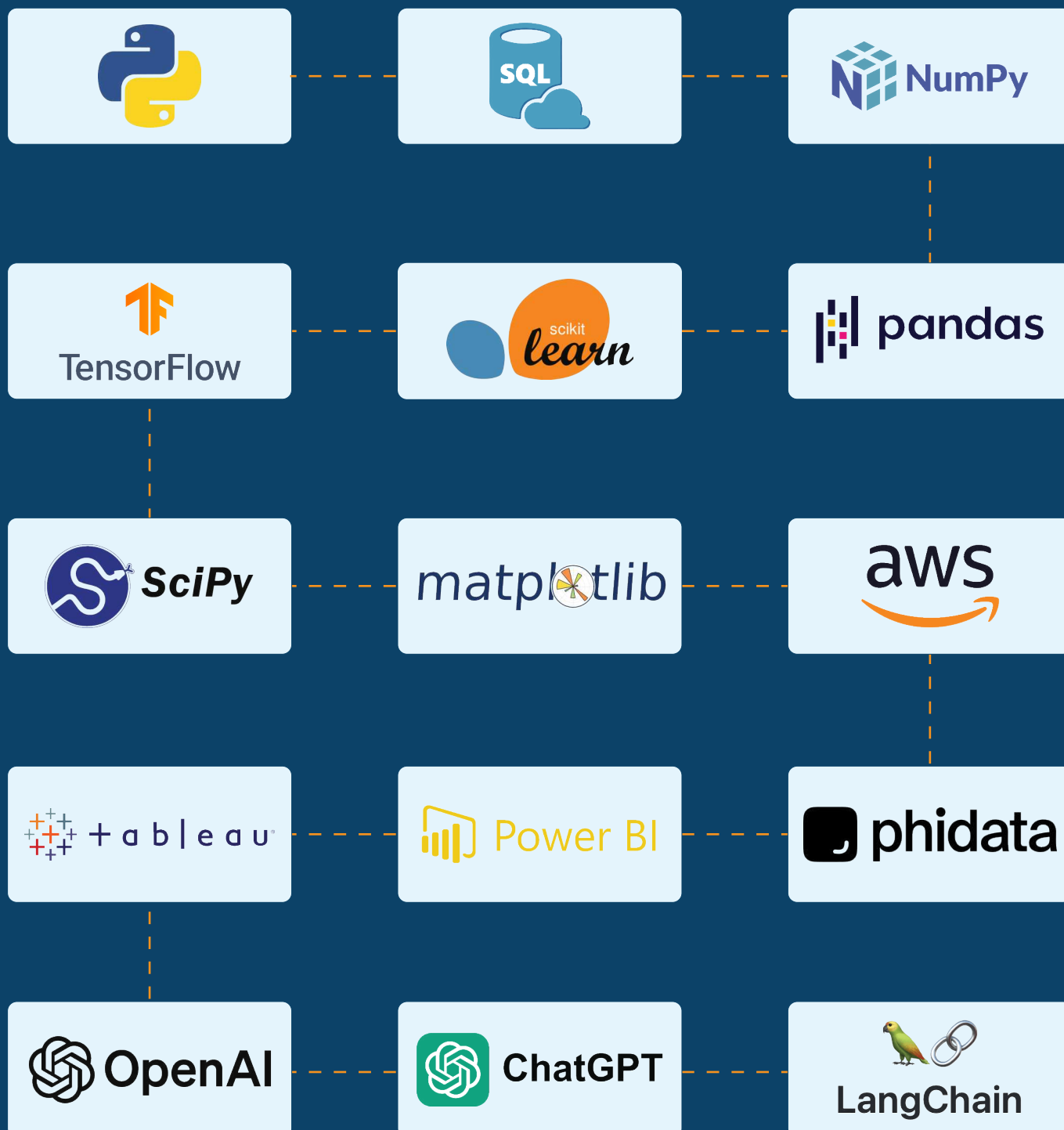
Learning Path

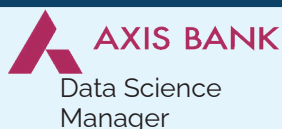|	
	Python Programming
	Statistics and Machine Learning
	Deep Learning
	Natural Language Processing(NLP)
	Generative AI, AI Agents and MLOps
	AI Project management
	SQL, PowerBI, Tableau
	Capstone Projects on Real world datasets
	Resume Building & Interview Preparation
	Job Placement Assistance and Career Guidance

Student Reviews

INTTRVU

Nitin Jethwani

Data Scientist

BAJAJ FINSERV

AXIS BANK
Data Science Manager → **BAJAJ FINSERV**
Senior Cluster Manager - Analytics

"The course material was comprehensive and straightforward, directly addressing today's job market needs.
Rohit was always on hand, providing personalized feedback that was crucial for improvement. Mock interviews felt incredibly authentic, boosting my confidence and skill significantly.
One of the most astonishing outcomes of this journey was the significant salary hike I achieved, thanks to the negotiation skills I learned through the program. I secured a position with a **130%** higher salary than my previous role. The number of offers (10+) I received allowed me to choose a role that was not just financially rewarding but also aligned with my career aspirations and values."

Shivam Agrawal

Data Scientist

virtusa

accenture
Software Engineer → **virtusa**
Data Scientist

"I attended a data science course offered by INTTRVU.ai and had an excellent experience. The course content is very streamlined and focuses on the most relevant topics for today's job market and advancements. The pace of teaching is excellent. Mr. Rohit frequently takes feedback from students to ensure everyone is keeping up. There are separate sessions each week dedicated to solving doubts. Through the support of INTTRVU.ai , I received a **50%** hike in my first offer from an MNC. Highly recommended for those looking to transition into the data science space. The course is great value for money and time well spent."

Rudesh More

Technical Specialist in Data Science

accenture

DASSAULT SYSTEMES
R & D → **accenture**
Technical Specialist in Data Science
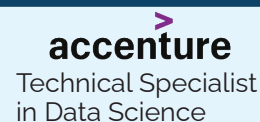
"I feel fortunate to have discovered Inttrvu.ai. Their study material is updated with current AI/ML trends, it is precise, and crisp, which helps you prepare quickly for interviews. They also provide mock interviews which is a crucial part, where you learn to answer questions confidently. The staff and faculty are always available.
Rohit Sir, the head of the institute, guides you through every phase, from understanding technical concepts to interview preparation. He keeps you motivated in this competitive field. Thanks to Rohit Sir, under his guidance I secured a data science role with a **70%** salary hike!"

iNTTRVU

Mukul Raman
Data Scientist

TIGER ANALYTICS

ICICI Bank → **TIGER ANALYTICS**
Banking Manager → Data Scientist

"I recommend the Intrrvu.ai Data Science course especially for professionals looking to transition into core data science roles from non-technical backgrounds. With 7 years of experience in the finance domain and a commerce degree, I initially thought moving into data science would be an uphill battle.However, this course turned out to be a game-changer for my career. From Hands -On Projects to Exceptional Mentorship and Placement support from Rohit sir and the team , today I am working in the core data science domain with an **80%** salary hike."

Yash Yadav
Data Analyst

Canopus InfoSystems

SG Analytics → **Canopus InfoSystems**
Life's Possible
ESG Analyst → Data Analyst

"I had an excellent experience with this course, which helped me secure a Data Analyst role with a **50%** salary hike, thanks to the upskilling program by INTTRVU. Rohit is an exceptional mentor who offers guidance not only professionally but also personally. One of the standout features is the one-on-one mentorship provided by Rohit, ensuring personalized support whenever needed.
This course is highly recommendable. The curriculum is very well-designed and includes even the latest trends like Generative AI and Deep Learning. It covers all topics thoroughly, balancing theoretical concepts with practical implementation.
The course also provides excellent placement assistance, connecting learners with opportunities at reputed companies and internships. They offer thorough interview preparation, including guidance on how to effectively answer interview questions."

Ajay Vamsi
Lead Data Scientist

Tecnotree

Deloitte. → **Tecnotree**
Data Scientist → Lead Data Scientist

"The data science interview course exceeded my expectations! The content is well-structured, covering key concepts with clear explanations and practical examples. It boosted my confidence and prepared me thoroughly for interviews. I was able to crack multiple offers for data science role. Highly recommend for data science Interview preparation!"

INTTRVU

Valli Raja Shekher
Data Scientist II
TE connectivity

GWC DATA.AI — Data Scientist → TE connectivity — Data Scientist II

"Rohit sir Help me in the preparation for cracking the product based company in data science with **125%** hike. He had provided the immense material on the Golden standard which helped me to crack the interview.And one of the most important aspects is the mock Interview... The gaps will be identified and you can feel immense confident while appearing for the next interview"

Shilpa Diggai
Business Analyst
cognizant

cognizant — Project Manager → cognizant — Business Analyst

"Inttrvu has provided the best practices of data science learnings. Yeh lectures were well conducted and organised. Assignments were given and checked for individual contributors. A well mannered and structured way of learning is designed. (However the Learner must must to achieve the goal).From a BA background I could crack interviews and got a **30%** hike in salary within the time span. The project which we executed during the training was very helpful in answering the interview questions.
Rohit is an extremely humble and kind person.He is always approachable for any silly thing.He really appreciates the students who interact and react to situations. And the staff is knowledgeable too.(But as adults we have to put in efforts to catch them) . Yes I still visit"

Omkar Mirji
Data Scientist
Garrett ADVANCING MOTION

"I have taken an Interview Preparation course with Inttrvu.
The preparation material is very well defined with most likely interview questions, python, SQL coding.
I have most likely used interview questions material every time I used to sit for an interview.
Also, resume review and feedback discussion with Rohit was really really helpful as he pointed out improvement areas and suggested tips for resume shortlist.
With the help of this course, I was able to get an offer for the role of Data Scientist with an **80%** hike."

INTTRVU

Anshuman Pathak
Data Scientist
WELLS FARGO

Production Role → Data Scientist
WELLS FARGO   WELLS FARGO

"I am glad I came across this course at the right time when I was trying to internally switch into Data Science role from Prod role. The material with Interview questions especially for the stats and ML part were really helpful and a few were even directly starting points in my interview which I was able to crack. Thank you Team !"

Yogendra Singh
ML Engineer (l2)
Avalara

HALLIBURTON → Avalara
Data Scientist   ML Engineer

"I recently took the data scientist interview preparation course from Inttrvu, and it was fantastic. The sessions on resume preparation and explaining project details were very insightful and practical. They also provide a questionnaire for the interview, which gives you in-depth knowledge to prepare for the interview.
The highlight was the mock interviews with Rohit sir, an ex-Chief Data Scientist at Barclays. His feedback was invaluable, helping me identify improvement areas and boosting my confidence. Under his guidance, I successfully switched my job.
I highly recommend this course for anyone preparing for data science interviews. It's comprehensive and highly effective."

Abhijeet Gangane
Scientist
Ministry of earth Sciences
Govt. Of India

"Rohit is highly skilled in the field of data science. He maintains a well-organized classroom environment that is conducive to learning, ensuring that everyone in the coaching session is able to thrive. With a keen eye for assessing learning outcomes for each individual in the classroom, he helps us understand and grasp concepts more quickly. I highly recommend Rohit's coaching academy, 'INTTRVU.ai,' if you want to pursue a career in data science; he is the perfect tutor for you."

iNTTRVU

Sagar Patil
Associate
cognizant

"This data science program excels in content quality, offering an up-to-date curriculum. The program's content is well-structured and covers key concepts. The instructor possesses in-depth knowledge of data science and AI."

Harshal Talmale
Manager
cognizant

"Rohit has AIML industry experience and provides training based on real scenarios. The content provided in the training sessions is very useful. He is always ready to solve queries and gives attention to everyone."

Tribhuwan Singh
UI developer
BARCLAYS

"I highly recommend exploring data science, with a focus on industry-level problems, under the guidance of Rohit Sir. This approach not only facilitates a comprehensive understanding of the significance of data science but also provides practical insights into real-world applications. Engaging with Rohit Sir's teachings can be the easiest and most effective way to grasp the complexities of data science in a practical and industry-relevant context"

Alisha
Acturial analyst
M&G

"Rohit provides detailed explanation of key concepts and theories of Data Science. He focuses on clarifying doubts. Additionally, the appropriate level of assignments complements the learning experience."

iNTTRVU

Inttrvu vs Others

Inttrvu's Program	Others Courses
✅ Trainers with extensive industry experience	❌ Trainers without industry experience
✅ 100 % Live interactive sessions	❌ Pre-recorded or less interactive sessions
✅ Build 20+ data science models during the program	❌ Fewer opportunities for hands-on model building.
✅ 7 Capstone projects, including Generative AI	❌ Basic projects, without exposure to advanced topics like Generative AI.
✅ Build machine learning models on datasets with millions of rows.	❌ Limited exposure to large-scale datasets
✅ 300+ most asked questions and answers document	❌ No comprehensive interview prep resources.
✅ Personalized resume review and guidance	❌ Generic resume building guidance
✅ 2 mock interviews with hiring managers	❌ Mock interviews with internal team
✅ Provides course on Generative AI and AI Agents	❌ Limited focus on Generative AI
✅ Offers specialized training in AI Project Management	❌ Do not provide AI Project Management training

Contact us to know more- +91 77560 43707

iNTTRVU

Syllabus

Python

>> **Variables:**
- Definition and use
- Variable assignment and reassignment

>> **Data types:**
- String, integer, float
- String manipulation
- Floating-point arithmetic

>> **Loops and conditions:**
- For loop, while loop
- For loop syntax and examples
- While loop structure and usage
- Loop control statements (break, continue)

>> **Data Structures:**
- Lists, tuples, dictionaries, and sets
- List operations and methods
- Tuple characteristics and usage
- Dictionary key-value pairs
- Set operations and applications

>> **Functions:**
- Function definition and calling
- Parameters and return values
- Lambda functions

>> **Object-oriented programming:**
- Object-oriented programming concepts overview
- Class & object creation
- Private functions and variables

INTTRVU

❯❯ Pandas:
- Introduction to Pandas
- DataFrames and Series
- Merge, filter and sort operations in Pandas
- Handling missing data

❯❯ NumPy:
- Introduction to NumPy
- NumPy arrays and operations
- Linear algebra with NumPy

❯❯ Reading data from API and SQL:
- Retrieving data from APIs,
- Integration of SQL and Python

❯❯ Web scraping using Python:
- Extract data from websites

❯❯ Data Visualization:
- Seaborn, Matplotlib
- Basic plots with Matplotlib
- Seaborn for statistical data visualization

Math for Data Science

- Probability
- Scalar and Vector
- Distance Metrics
- Matrix Operations
- Linear and non-linear functions
- Derivative

Statistics

- Central limit theorem
- Data Distribution
- Mean, Mode, Median
- Variance and Standard Deviation
- Correlation and Causation
- Missing data imputation
- Outlier Detection
- Hypothesis Testing: p-value, chi square test, Welch t-test
- A/B Testing
- Market Basket Analysis

Machine Learning Models

❯❯ Linear Regression:

- Simple and multiple linear regression
- Gradient Descent Optimization
- Ordinary Least Square Regression
- Evaluation metrics for Regression models
- Build linear regression model using Python in live class

❯❯ Logistic Regression:

- Logistic function
- Odds Ratio
- Logistic regression model
- Decision Boundary
- Evaluation metrics for Classification model
- Build logistic regression model using Python in live class

INTTRVU

❭❭Regularization:
- Underfitting and Overfitting
- Bias Variance Tradeoff
- L1 regularization (Lasso regression)
- L2 regularization (Ridge regression)
- Build L1 and L2 regularized model using Python in live class

❭❭Clustering:
- K-Means clustering
- Hierarchical clustering
- DBSCAN Clustering
- Evaluation metrics for Clustering Model
- Build and evaluate clustering models using Python in live class

❭❭K-Nearest Neighbors (KNN):
- Distance metrics in KNN
- KNN algorithm
- KNN for regression and classification
- Build KNN model using Python in live class

❭❭Support Vector Machines (SVM):
- Margin Maximization
- Hard Margin and Soft Margin
- Kernel Trick
- Support vector regression
- Build and evaluate SVM model using Python in live class

❭❭Dimension Reduction:
- Principal Component Analysis (PCA)
- Eigen Value Eigen Vector Decomposition
- Apply PCA for dimension reduction using Python in live class

INTTRVU

❯❯ Decision Trees and Random Forests:

- Decision tree construction
- Splitting criteria
- Build a decision tree model using Python in live class

❯❯ Random Forest:

- Bagging
- Ensemble learning with random forests
- Feature importance in random forests
- Build a random forest model using Python in live class

❯❯ Gradient Boosting:

- Boosting
- Adaboost
- Gradient Boosting
- XGBoost and its advantages
- Build XGBoost model using Python in live class

Deep Learning

❯❯ Neural Networks: Overview of Neural Networks

❯❯ Activation Functions:

- Understanding Activation Functions
- Types of Activation Functions
- Importance of Activation Functions in Deep Learning

Contact us to know more-+91 77560 43707

iNTTRVU

❯❯ Deep Learning:

- Introduction to Deep Learning
- Deep Neural Networks (DNNs)
- Forward propagation
- Backward Propagation
- Vanishing Gradient problem
- Exploding Gradient problem
- Build a deep learning model using Python in live class

❯❯ Convolutional Neural Networks (CNN):

- Introduction to Convolutional Neural Networks.
- Pooling layer
- Dropout layer
- Create a model for object detection using Python in live class

Time series forecasting using LSTM

- Introduction to Recurrent Neural Networks (RNNs)
- Long Short-Term Memory (LSTM)
- Architecture and working principles of LSTM
- Build LSTM model using Tensorflow on time series data in live class

Natural language processing (NLP)

❯❯ Text Cleaning:

- Introduction to text preprocessing.
- Handling special characters and numbers.
- Case normalization.

INTTRVU

›› Stemming and Lemmatization:
- Understanding the basics of stemming and lemmatization.
- Comparing stemming and lemmatization.

›› Part of Speech Tagging:
- Overview of part-of-speech (POS) tagging
- Use cases and applications of POS tagging

›› Recognition (NER):
- Overview of NER
- Applications of NER
- Build NER on text data using Python in live class

›› TFIDF (Term Frequency-Inverse Document Frequency):
- Explaining TFIDF and its importance in NLP
- Applications of TFIDF in text analysis
- TFIDF implementation
- Build TFIDF model on text data using Python in live class

›› Word2Vec:
- Introduction to Word Embeddings
- Word2Vec architecture and models
- Training Word2Vec models
- Applications of Word2Vec in NLP
- Build word2vec model on large text data using Python in live class

Explainable AI

- How to create explainable models?
- LIME
- SHAP
- Build Explainable AI model using Python in live class

iNTTRVU

Generative AI and AI Agents

>> **Generative AI**

- BERT (Bidirectional Encoder Representations from Transformers)
- ChatGPT: Capabilities & Applications
- Training Mechanism of ChatGPT: Insights into the Learning Process
- Leveraging ChatGPT API for AI Developers: Practical Integration

>> **Retrieval-Augmented Generation (RAG) in AI Applications**

- Understanding RAG: Combining Retrieval & Generation
- Use Cases: Chatbots, Knowledge Management
- Build Q & A system on industrial datasets using LangChain and RAG during live class

>> **AI Agents: Autonomous & Task-Driven AI Systems**

- Introduction to AI Agents
- Multi-Agent Systems & Collaboration
- Building AI Agents for Real-World Applications using Phidata during live class

Project management for AI projects

>> **AI Product & Project Management**

- Identifying High-Impact AI Use Cases
- Strategic Resource Planning & Scope Definition
- Agile Model Development & Iteration
- Managing Stakeholders & Securing Deployment Approvals
- Defining AI Success: KPIs, ROI ($), and Business Impact
- Continuous Improvement: Evaluating & Optimizing AI Solutions

≫Case Studies on AI Project Management
- AI for Customer-Centric Personalization
- AI for Risk Mitigation & Intelligent Decision-Making

ML Ops

- Git and Coding standards
- Model deployment
- Model monitoring
- Flask API and Batch processing
- Docker
- Build a ML project with code structured for batch and API deployment using Python in live class

Amazon Web Services (AWS)

- AWS cloud services
- AWS for machine learning
- ML model deployment on AWS using Docker

SQL for Data Science

- Introduction to SQL for data manipulation
- Aggregation functions in SQL
- Filters in SQL queries
- Group By clause and its applications
- Joins in SQL and handling nested queries
- Date and time operations in SQL

INTTRVU

Power BI

- Data visualization using Power BI
- Data Modelling
- Power Query
- Advanced visualizations
- DAX
- Build data analytics project using Power BI

Tableau

- Data Visualization using Tableau
- Creating dashboard Pages
- Sorting, grouping and Filtering
- Different types of charts
- Build data analytics project using Tableau

Capstone projects on real world datasets

- ML capstone project 1 & 2 – Regression
- ML capstone project 3 & 4 - Classification
- ML capstone project 5 -Clustering
- ML capstone project 6 & 7 - NLP and Generative AI

Projects

Note: You will be building machine learning models on datasets with millions of rows!

Finance Domain

- Credit card transactions fraud detection
- Loan prediction based on customer behavior
- Bank customer segmentation
- Credit score prediction
- Build an application using Generative AI and AI Agents on a financial data

Healthcare

- Heart failure prediction
- Diabetes prediction
- Lung Cancer Prediction on Image Data
- Drug Recommendation
- Build an application using Generative AI and AI Agents on a healthcare data

![INTTRVU logo]

Manufacturing

- Defect detection in production
- Product quality prediction
- Predictive maintenance
- Build an application using Generative AI and AI Agents on a manufacturing data

Ecommerce

- Ecommerce text classification
- Sentiment analysis from TripAdvisor reviews
- Customer segmentation and recommendation system
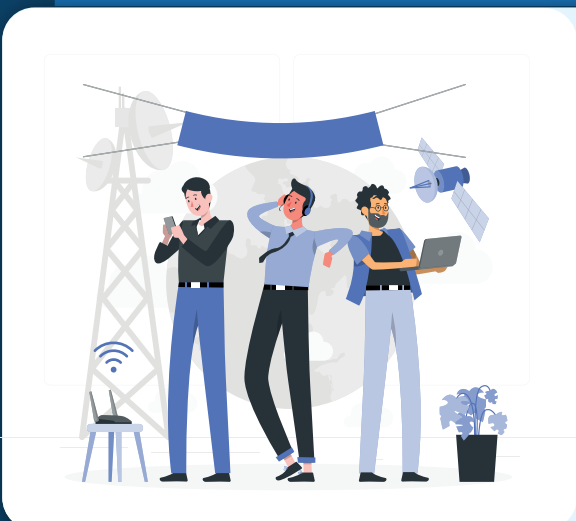- Build an application using Generative AI and AI Agents on a ecommerce data

Contact us to know more-+91 77560 43707
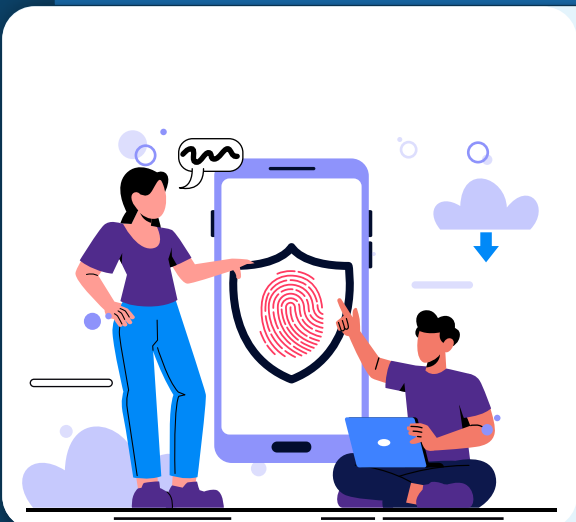
INTTRVU

Automotive

- Fuel Efficiency Prediction
- Defect detection
- Predictive maintenance
- Build an application using Generative AI and AI Agents on an Automotive data

Telecom

- Network Malware Analysis
- Signal strength prediction
- Predictive maintenance
- Build an application using Generative AI and AI Agents on a telecom data

Cybersecurity

- Phishing Threat Detection
- Real-Time Detection of DrDoS DNS Attacks
- Malware detection in Network Traffic
- Build an application using Generative AI and AI Agents on a cyber security data

Interview Preparation & Mock Interviews

Revision of Key topics and questions for Data Science Interview

How to explain projects?

Document with 300+ most asked questions and answers

Document with most asked Power BI questions and answers

Answers which will help you to standout

Standout CV creation guided and reviewed by experts

Mock interviews with Data Science experts

Detailed Feedback and plan of action to crack the interviews

Job application guidance and support

Placement Assistance

INTTRVU

Top Recruiters

Citi	Accenture	Western Union
Wipro	TomTom	Databricks
Mckinsey & co	ICICI	Walmart
Mastercard	Nvidia	Microsoft
Capgemini	EY	Kotak
Tcs	Cloudera	Pwc
Infosys	Amazon	J.P.Morgan
Tech Mahindra	Tiger Analytics	Terdata
Fractal Analytics	Numerator	Musigma
BNY Mellon	Barclays	Google
Wolters Kluwer	Meta	

Certification

INTTRVU

CERTIFICATE
OF COURSE COMPLETION

THIS IS TO CERTIFY THAT

_____

has successfully completed the
"Advanced Certification In Data Science
&
Artificial Intelligence"

Rohit Mande
Founder & CEO

Certificate ID-

Program Fees

Special Discounted Price

(Monthly EMI ₹9,000)

~~₹79,000/-~~
₹69,000/-

For NRI and International Students

~~$999~~
$890

iNTTRVU

Enroll Now

Address

Office No. 307 Acharya House
Plot No.24 Sr.No.19/12/1,
Bavdhan, Pune, 411021

Book a counseling
session with expert!

Book a session

+91 77560 43707

info@inttrvu.ai

Click on the icon to explore more!