



 THINK BIG . TRAIN SMART . WIN HARD

ALGOFORGE STUDIOS

HR ANALYTICS | COURSE BROCHURE



ALGOFORGE STUDIOS

01

ABOUT

US



AlgoForge Studios is a leading training and AI solutions company specializing in Data Science, Machine Learning, Cybersecurity, Generative AI, and Full-Stack technologies.

We provide industry-focused training, live projects, guaranteed paid internships, and placement support to help learners build strong, job-ready technical skills.

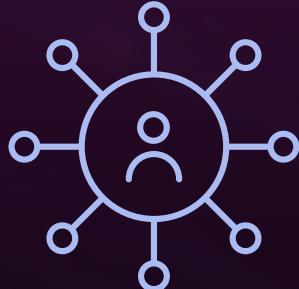




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HUMAN RESOURCE ANALYTICS

02



HR Analytics uses data-driven insights to improve hiring, employee performance, retention, and overall workforce planning. By analyzing employee data, organizations can make smarter decisions, enhance productivity, and build stronger workplace strategies.

At AlgoForge Studios, the HR Analytics domain focuses on practical skills in HR data handling, dashboards, and decision-making analytics – preparing learners for modern, data-driven HR roles.



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OUR KEY BENEFITS

- Guaranteed Paid Internship
- Industry-Recognized Certification
- 24/7 Access to Learning Materials
- Dedicated Support System
- Live Projects & Real Client Work
- Placement Assistance
- Expert Trainers (7+ Years Experience)

03



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04

COURSES UNDER THIS DOMAIN



**HR Analytics With Python
Course**



**HR Analytics Training
Course**



HR ANALYTICS WITH PYHTON COURSE

- Duration: 8+ weeks
- Mode: Online
- Level: Beginner
- Course Fee: ₹10,500



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COURSE CURRICULUM

01

Introduction To Analytics

- What is Analytics (BI, BA, Levels etc.)
- Why Analytics (Application in various domains..)
- Different Roles in Analytics
- Tools and Techniques in Analytics
- Data Science, Data Mining, Statistics, Machine Learning, Supervised and Non-Supervised Techniques
- Scales of Measurement
- CRISP Modeling Framework
- Quiz Module 1

02

Python Environment

- Anaconda - Download & Setup
- IDEs - Jupyter, Spyder, PyCharm
- Git - Setup and Configuration with IDEs
- Creating and Managing Analytics/ ML Projects
- Quiz Module 2

03

Basic Programming And Data Structures

- Basic Data Structures & Programming Constructs
- Libraries
- Numpy
- Pandas
- Matplotlib
- Quiz Module 3

06



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COURSE CURRICULUM

04

Data Manipulation And Descriptive Summary

- Group Summaries
- Crosstab, Pivot and Reshape data
- Managing Missing Values
- Outliers Detection
- Various types of Joins, merge
- Managing indexes in pandas
- Partitioning data into train and test set
- Scaling of Data (useful for Clustering)
- Quiz Module 4

05

Statistics

- Basic Statistics (mean, median, mode)
- Other Statistics (sd, var, quantile, skewness, kurtosis)
- Hypothesis Tests (t-test, Chi-square tests etc.)
- Probability Distributions (normal, binomial etc.)
- Sampling Techniques
- Quiz Module 5

06

Graphical Representation Of Data

- Selection of Graph
- Libraries (matplotlib, seaborn, plotnine)
- Basic Graphs (histogram, barplot, boxplot, pie etc.)
- Managing plot parameters (size, title, axis, legend etc.)
- Advanced Graphs (correlation, heatmap, mosaic etc.)
- Exporting graphs
- Quiz Module 6

07



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COURSE CURRICULUM

07

Linear & Multiple Regression Analysis

- Simple Linear Regression
- Multiple Linear Regression
- Libraries - sklearn, statsmodel
- Predict DV on IVs
- Metrics of Linear Regression(R2, RMSE, p-values)
- Applications of Linear Regression
- Assumptions of Linear Regression
- Quiz Module 7

08

Logistic Regression

- Difference between Linear and Logistic
- Logistic Regression
- Metrics of Logistic Regression (confusion matrix, ROC curve)
- Predict probability of DV on IV
- Applications of Logistic Regression
- Quiz Module 8

09.

Classification: Decision Trees

- Difference between classification and regression decision trees from CART models
- Understanding tree from the plot
- Classification Tree - predict class, plot, accuracy
- Regression Tree - predict numerical value, plot, RMSE
- Improving tree accuracy using Random Forests
- Bagging and Boosting
- Applications of Decision Tree
- KNN (K-nearest neighbours)
- Neural Networks
- Gradient Descent
- SVM (Support Vector Machine)
- Quiz Module 9

08



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COURSE CURRICULUM

10

Cluster Analysis

- Clustering for Grouping Data Types - Hierarchical & Non-Hierarchical
- Kmeans - output metrics (iter, error, plot)
- Hierarchical (Agglomerative & Divisive) - Dendrogram, Visual plot
- Extracting the data in clusters, Cluster Centers
- Applications of Clustering
- Quiz Module 10

11

Association Rule Analysis

- Applying AR to grocery store for Market Basket Analysis
- Metrics- Support, Confidence, Lift
- Frequent Items Sets and Rules; Filtering rules
- Applications of AR
- Quiz Module 11

12

Text Mining

- Managing Unstructured Data; Unstructured to Structured Data
- Extracting Tweets from Twitter
- Extracting words for Sentiment Analysis
- Wordcloud to Visualize the frequency of occurrence of words in text
- Applications of Text Mining
- Quiz Module 12

13

Forecasting With Time Series Analysis

- Creating & Managing dates and times
- Creating and managing time series data
- Download stock prices data using libraries and analyzing them
- Time Series Components(Seasonal, Irregular, Trend) & Types (Additive & Multiplicative)
- Time Series Analysis - Simple Moving Average, Exponential Smoothening, ARIMA forecasting
- Plotting Time Series, Candlesticks diagram for stocks
- Applications of Time Series Analysis
- Quiz Module 13



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10



HR ANALYTICS TRAINING COURSE

- Duration: 10+ weeks
- Mode: Online
- Level: Beginner
- Course Fee: ₹12,000



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COURSE CURRICULUM

01

Understanding HR Analytics

This module will guide the candidate through the basics of HR Analytics.

- Data & Analytics
- The framework of HR analytics
- Quiz Module 1

02

Basics of R programming

This module will guide the candidate through the basics of R Programming.

- Basics of R
- Introduction to R libraries
- Data Structures and data types in R
- Operators, Control Structures, and functions in R
- Attrition Prediction Model
- Quiz Module 2

03

Data Cleaning

This module will guide the candidates through the basics of Data cleaning.

- Reading Data
- Cleaning and Preprocessing Data
- Quiz Module 3



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COURSE CURRICULUM

04

People and Talent Management

- Logistic Regression
- Classification- Random Forest
- Performance Appraisal Management
- Classification- Decision Tree
- Clustering- K Means
- Attrition Prediction Model
- Quiz Module 4

05

Complimentary Module Soft Skills Development

- Business Communication
- Preparation for the Interview
- Presentation Skills

06

Complimentary Module Resume Writing

- Resume Writing



CAREER OPPORTUNITIES FOR HR ANALYTICS



- HR Analyst
- People Analytics Specialist
- HR Data Scientist (Entry-Level)
- Talent Analytics Analyst
- Compensation & Benefits Analyst
- Workforce Planning Analyst
- HR Reporting & Insights Analyst



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WHY CHOOSE ALGOFORGE

AlgoForge Studios stands out as a leading training hub because we combine industry expertise with practical, project-driven learning. All our courses are taught by experienced professionals with strong real-world backgrounds. We focus on hands-on training through live projects, case studies, and real client assignments, ensuring students gain skills that directly meet industry needs. Our programs are powered by advanced infrastructure including NVIDIA DGX A100 systems for high-performance AI and deep learning workloads. We also provide internships, placement support, personalized mentorship, and portfolio-building guidance to help students confidently begin their careers. With flexible learning options, an updated curriculum, and affordable fees, AlgoForge Studios offers a complete, career-focused pathway for anyone looking to excel in tech.



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GET IN TOUCH WITH US

Thank you for joining us on this journey through innovation and technology. For further inquiries or collaborations, please feel free to contact us



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