



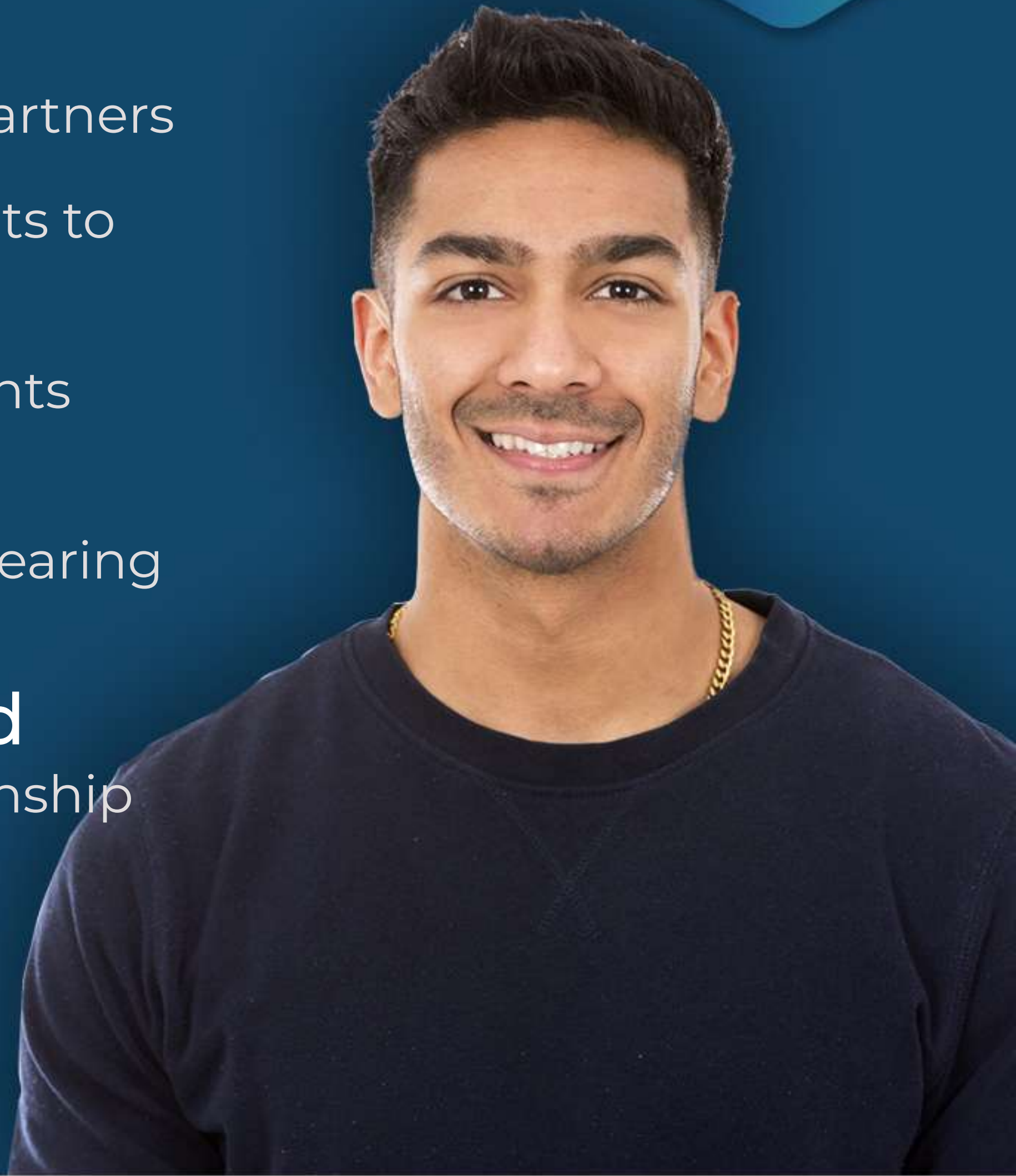
100+ Hiring Partners

15+ Live Projects to
choose from

Only 20 Students
per batch

1-on-1 doubt clearing
sessions

Guaranteed
Mentored Internship



Data Science with Python, Julia & R

In association with INDPRO AB, Sweden.





PROGRAM MENTORS



Gnanavel Mutharasu

// Mentor, Instructor

Phd in Computational Biology with Artificial Intelligence applications. 10+ years of experience in Data Science, Deep Learning, Server architecture and Genomics. CEO & Founder of Zealbots



Jeeva Chelladhurai

// Mentor, Instructor

Acclaimed technical author, speaker, innovator, CEO of Comorin Consulting Services, Ex Technical Manager & consultant at IBM with over 22 years of industry experience



Henrik Melchander

// Mentor, Instructor

Senior system developer, company CTO at Indpro AB, Sweden. Over 15 years of industry experience



Sagar Dawda

// Mentor, Instructor

Data scientist by passion and profession with a flair for teaching. Sagar is from Mumbai, Maharashtra, India.

ABOUT NORDIC ACADEMY

Nordic Academy is an Indo-Swede online education platform offering industry relevant IT programs designed and delivered in collaboration with experienced industry professionals, thought leaders, innovators and experienced teachers.

Nordic Aademy is the sister concern of INDPRO AB, Sweden, which has over 15 years of experience in the Software industry. With a leadership team consisting of thought leaders from both India and Sweden, Nordic Academy is trying to bring the best of both worlds together.

WHY DATA SCIENCE WITH NORDIC ACADEMY



CERTIFICATE OF INDUSTRY RECOGNITION

Earn Certificate of Recognition from
INDPRO AB, Sweden



INTERNSHIP FROM REPUTED COMPANIES

Integrated Mentored Internship Programs
from reputed companies on Data Science



1-ON-1 MENTORING

Mentoring from industry PROs &
peer-to-peer learning opportunity



HANDS ON LEARNING

Hands on learning experience through
shadow projects and assignments

This is how it works

ONBOARDING

1. REGISTRATION
2. PAY ONLINE
3. LMS ONBOARDING
4. MENTOR CONNECT
5. NORDIC COMMUNITY NETWORK

LEARN & EXECUTE

1. LIVE CLASSES
2. ASSIGNMENTS
3. REAL WORLD PROJECTS
4. DOUBT CLEARING SESSIONS
5. ONE-ON-ONE MENTORING
6. MENTORED INTERNSHIP(S)

CERTIFICATE

CERTIFICATE OF INDUSTRY RECOGNITION
INTERNSHIP CERTIFICATE

MENTORED INTERNSHIP OPPORTUNITY EXAMPLES



Analyse User Behaviour & Optimise the User Workflow Using a Machine Learning Algorithm

Based on the characteristics, we need to come up with another set of guided navigation, which can guide the user in case the user misses steps...

Data Analytics

208 students enrolled



Use Data Analytics to Study Music Streaming Patterns

Collect various music listeners' data and analyse it to understand their music streaming patterns & recommend songs based on their previous...

Data Analytics

143 students enrolled



Analyse Data Through the Smart City Mission of the Govt. of India to Highlight Current Socio-Economic...

Research on selected datasets from the Smart India City mission, to provide viable solutions for identified problems and back it up with valid...

Data Analytics

47 students enrolled



Analysis of Sales Data of Retail Stores Across America Using Exploratory Data Analysis and Data Visualisation

Use SQL and Tableau to analyse, and visually represent data respectively, to build an analysis report on sales from retail stores

Data Analytics

37 students enrolled



Build a model to predict performance of employees, based on the visualisation and analysis of past data ...

You will be using various ML Models to predict the likelihood of an employee getting promoted based on various metrics available like previous...

Data Analytics

14 students enrolled



Build a Content based Movie Recommender System to recommend Movies using Open source Data in Python

Build a simple content based recommendation system using Scikit-Learn, based on the open source movie data provided

Data Analytics

10 students enrolled



Identify the best source of recruitment for a tech startup, based on previous data of candidate sources...

Analyze and visualize recruiting data to determine which source of new candidates ultimately produces the best new hires.

Data Analytics

9 students enrolled



Analyze Mobile App Data on various platforms and generate recommendations based on the analysis an...

Analyze the data and come up with recommendations for the favourable metrics the apps on the Apple Store and Play Store should have to have a ...

Data Analytics

Be the first to enroll

10+



HANDS ON DATA SCIENCE WITH PYTHON, JULIA & R

Week 1: Data science with python

- What is data science (DS) ?
- Why Python ?
- Real world examples for python and DS
 - YouTube, Facebook, Amazon
- Jupyter: Installation and configuration
- Git and Linux basics

Week 2: Python core

- Data types
- Operators
- Modules and Libraries
- Class and OOP
- Arguments parsing and CLI
- File handling

Week 3: Number crunching with Numpy

- BeUnderstanding Data Types in Python
- The Basics of NumPy Arrays
- Computation on NumPy Arrays: Universal Functions (ufunc)
- Computation on Arrays: Broadcasting
- Aggregations: Min, Max, and Everything In Between
- Comparisons, Masks, and Boolean Logic
- Fancy Indexing. Sorting Arrays

Week 4: Data manipulation with Pandas

- Introducing Pandas Objects
- Data Indexing, Hierarchical Indexing and Selection
- Handling Missing Data
- Combining Datasets: Concat, Append, Merge and Join
- Aggregation and Grouping, Pivot Tables
- Vectorized String Operations
- Working with Time Series
- High-Performance Pandas: eval() and query()

Week 5: Immerse visualization with Matplotlib

- Line Plots, Simple Scatter Plots
- Visualizing Errors
- Density and Contour Plots
- Histograms, Binnings, and Density
- Customizing Plot Legends, Colorbars, Text and Annotation
- Multiple Subplots
- Customizing Matplotlib: Configurations and Stylesheets
- Three-Dimensional Plotting in Matplotlib
- Visualization with Seaborn

Week 6: Conventional Machine learning

- What Is Machine Learning?
- Introducing Scikit-Learn
- Hyperparameters and Model Validation
- Feature Engineering
- Naive Bayes Classification
- Linear Regression
- Support Vector Machines

Week 7: Conventional Machine learning - II

- Decision Trees and Random Forests
- Principal Component Analysis
- Manifold Learning
- k-Means Clustering
- Gaussian Mixture Models
- Kernel Density Estimation

Week 8: Deep learning with Keras

- Introduction to AI with Keras
- Training models and parameter optimization
- Computer vision with CNN

Week 9: Natural Language Processing

- Natural Language Processing with RNN
- Sentiment analysis from social media

Week 10: Advanced Applications

- Predictive forecasting
- Object detection with computer vision
- Multi-class text classifier
- Anomaly detection

Week11: Training and deploying models in the cloud

- Deploy model in a web application
- Deploy model in amazon web service cloud
- AI accessed by mobile app
- Your project selection

Week12: Speed up data processing with Julia

- Advantages of Julia
- Language basics
- Package management and optimizations
- MNIST example in Julia
- NLP with Julia
- Performance comparisons

Week13: Complex data processing and plotting with R/Bio-conductor

- R and Bioconductor
- Machine Learning in R
- Financial modelling
- Interplaying Python and R
- Interplaying R within Julia

Week14 - 24

- Project work
- Submit your project
- Get feedback
- Certification



REQUIREMENTS

Unix / Linux / Bash command line

- You are free to choose OS of your choice, teaching will be done in Linux environment
- 99% servers and IoT devices are running in Unix/Linux environment
- It will be hugely beneficial if you learn utilize the power of Linux commands
- Consider virtualbox to run Linux if you cannot install Linux in your system

Basics of any programming language

- This course focuses on Python programming language along with fundamentals of R & Julia
- Programming logics and basics will be covered
- Guidance will be provided if you need help in any Rust or systems development

Git

- All the teaching materials, assignments will be shared in github
- We strongly encourage to start using git command line or GUI tools
- This will ensure hands on experience and industry practices
- All your coding skills and contributions will be recorded automatically. which increases your chances of getting data science job substantially



OUR HIRING PARTNERS



OUR INTERNSHIP PARTNERS



INDPRO CLIENTS





PROGRAM STARTS

Please refer to the website for program starting dates

DURATION

90 days + Internship(s)

PROGRAM FEES & PAYMENT OPTIONS

OPTION 1

INR 9,999

~~INR 19,999~~

Market Rate 19999/-

Special Introductory offer at 9,999/-

DISCOUNT CODE: **SRMSPL20**

OPTION 2

INR 13,999

~~INR 19,999~~

PAY IN INSTALLMENTS

before commencement of class

for every month - Maximum of 4

Equal EMI's 13999/- (3500/- INR

a month x 4 months)

PROGRAM FLOW

3 months - Live Interactive Learning

1 month - 2 Mentored Internships

3 months - Internship with Chadura Technologies (top performers with regular attendance, contribution, skills and potential)

WEEKLY COMMITMENT

10-12 hours per week (Depending on prior aptitude)

2-3 hours of asynchronous learning time,

4-5 hours of live session,

4-6 hours assignments & projects

For further details contact us

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**Nordic
Academy**

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