European Institute of
Innovation, Entrepreneurship, and Technology
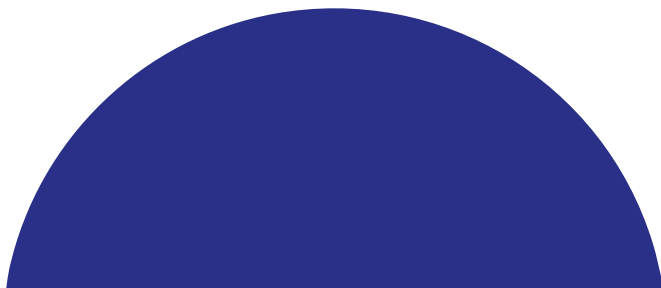
Diploma in
Data Analytics
& Data Science

About **Us**

Situated in Berlin, we are your gateway to a transformative online learning experience in data analytics and data science. At eilET, our mission is clear: to empower individuals with the knowledge and skills necessary to thrive in the ever-evolving landscape of data. Our courses cater to all levels of expertise. Our commitment to creating a supportive and engaging learning environment sets us apart.

Our team of industry experts and experienced educators shares practical insights alongside theoretical knowledge. With expert instructors, a comprehensive curriculum, interactive learning experiences, flexible scheduling, and a vibrant community, eilET is the ideal destination for those looking to excel in the dynamic world of data analytics and data science.

eilET

&

eduJournal

Unlock Your Data Potential
with eilET, Berlin.

Embark on a transformative journey in the world of Data Analytics and Data Science with eilET, your gateway to a future-driven career. Here's why choosing our courses is your key to success.

01 **Live Session Excellence**: Engage in dynamic, instructor-led live sessions that bring your learning to life. Our expert educators ensure an immersive and interactive experience.

02 **Assignment-Driven Course:** Dive deep into practical application through assignment-driven coursework. Develop a hands-on approach to real word projects.

03 **Soft Skills Training:** Elevate your professional profile with our exclusive soft skills training. Master communication, teamwork, and presentation skills to stand out in the competitive field.

...nd the classroom to support your career goals. Benefit ...tance program, connecting you with industry

...our interview skills with realistic mock interview ses- ...and constructive feedback.

...: Step into the real-world landscape with our intern- ...y your knowledge in actual industry settings, gaining

...ry Projects: Immerse yourself in hands-on, ...projects that mirror the challenges faced by data

Doubt-Clearing Sessions: Receive personalised ...guidance with one-on-one doubt-clearing sessions.

...rtfolio Building: Craft a compelling project portfolio ...guidance of our mentors. Showcase your skills and ...nts, leaving a lasting impression on potential employers.

Transform Your Future, Transform Your Skills
with eiIET, Berlin.

Step 01 - Learn and Excel:
Embark on a journey from the basics to advanced expertise. Solve assignments, gain hands-on experience, and unleash your true potential.

Step 02 - Power Up Your Career:
Elevate your professional trajectory by working on real-time projects. Boost your confidence and enrich your resume with practical experience.

Step 03 - Unleash Your Full Potential:
Beyond technical skills, our program equips you with vital soft skills training. Develop the communication and teamwork abilities crucial for success.

Step 04 - Real-world Experience:
Take your skills to the next level with internship opportunities. Gain invaluable real-world experience, setting the stage for a successful career.

Step 05 - Confidence is Key:
Alongside internships, prepare for success with our interview preparation resources. Boost your confidence and stand out in the competitive job market.
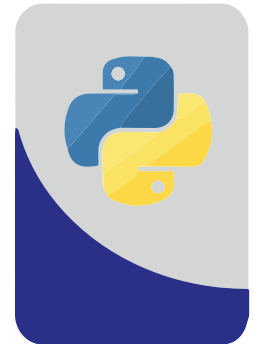
Step 06 - Your Dream Job Awaits:
Our program not only provides interview preparation but also grants access to top companies, paving the way for you to secure your dream job.
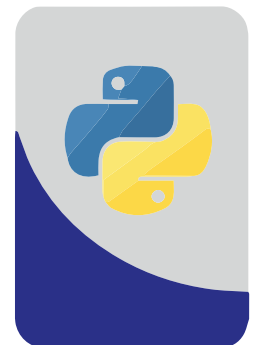
Detailed
Course Syllabus

Core Python Programming

- Introduction to Python, Python Basics
- Strings, Decision Control Statements
- Repetition Statements & Console Input - Output
- List, Tuoles, Sets and Dictionary
- Function and Recursion, Functional Programming and Lambda Function

Advance Python Programming

- File Input-Output Modules
- Classes and Objects
- Exception Handling, Iterators and Generators
- Data Analysis with Pandas
- Numeric and Scientific computing using NumPy
- Matplotib and Seabom
- SciPy
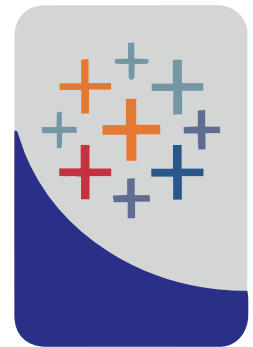- Exploratory Data Analysis
- Real- time Industry Project 01, 02

SQL (Structured Query Language) for Data Science

- Introduction to SQL
- Database Creation and Manipulation
- Database Selection
_ Quering Multiple Tables
- Data Exploration
- Index, Views and transaction
- Quering with Conditions
- Stored Procedures
- Integrating SQL with Excel
- Integrating SQL with Python
- Real- Time Industry Project 03, 04

Business Intelligence (BI) and Visualization using Tableau

- Introduction to Tableau
- Shelves, Cards and Analytics Pane
- Datatypes, Sorting and Grouping
- Filtering and table Calculation
- Complete Dashboard Building and Best Practices
- Distributing and Publishing
- Joins and Blending
- Relationships (2020.2 and Later Version)
- Data Preparation, Parameters and Set Actions
- Advance Calculations and Analytics
- Nested LODs and Analytics Functions
- Dynamic Design, Extensions and Tooltip Visualization
- Real- Time Industry Project 05, 06

Data Analysis and Visualization using MS Excel

- Course Introduction and Fundamentals
- Basic Excel Functions and Modifications of Worksheets
- Data Formatting, Working with Shapes and Images, Creating Your First Chart
- Excel Templates, Excel Options and Printing your Excel Worksheets, Introduction to Tables
- Conditional Function and Other Functions
- Pivot Table and LookUp Functions
- New Functions, Data Tab and Introduction to Power Query
- Advance Pivot Table Functions and Power Pivot Tools
- Large Datasets, File Protection, Named Ranges and More in Data Tab
- Lists Functions and Excel Automation using Macros
- VBA Basics
- Email Automation and Industry Application
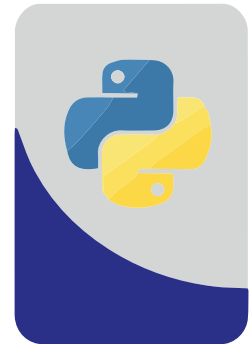- Real- Time Industry Project 07, 08

Introduction to Machine Learning Algorithms

- Introduction to Machine Learning
- Set Theory
- Probability
- Stastistics
- Probability Distribution
- Continuous Probability Distribution
- Sampling and Estimation
- Hypothesis Testing
- Non - Parametric Test
- Real- Time Industry Project 09

Introduction to Machine Learning Algorithms & their Implementations by using Python Programming

- Introduction to Data Science and Programming Languages (Tools) for Data Science
- Basics of Programming
- Essential Python Libraries
- Introduction to Machine Learning Cross- Validation, Bias Variance Trade-Off
- Evaluation Matrics
- Importing data and hands on imported data
- Univariate and Multivariate Linear Regression
- Principal Component Analysis
- Logistics Regression and k -nearest Neighbor
- Decision Tree and Random Forest
- K - Mean and Hierarchical Clusterinf
- Neural Networks
- Real- Time Industry Project 10

Machine Learning Fundamentals

- Basics of Probability and statistics
- Basics of Machine Learning and Artifical Intelligence
- Supervised Learning - Prediction
- Supervised Learning - Classification
- Random Forest and Model Evaluation
- Supervised Learning - Classification (SVM)
- Unsupervised Learning - K-Means
- Unsupervised Learning - Hierarchical
- Unsupervised Learning - PCA
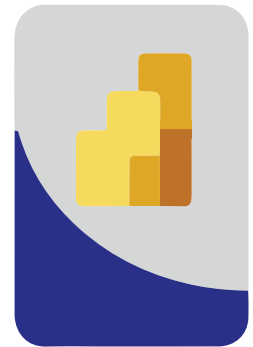- Real- Time Industry Project 11

Advance Deep Learning using Python

- Artifical Neural Network
- Activation Functions in Neural Networks
- Deep Learning
- Evaluation of Models
- Optimizers
- Convolutional Neural Networks (CNN) - Part 01
- Convolutional Neural Networks (CNN) - Part 02
- Recurrent Neural Network (RNN) - Part 01
- Recurrent Neural Network (RNN) - Part 02
- Basics of Neural Language Processing (NLP)
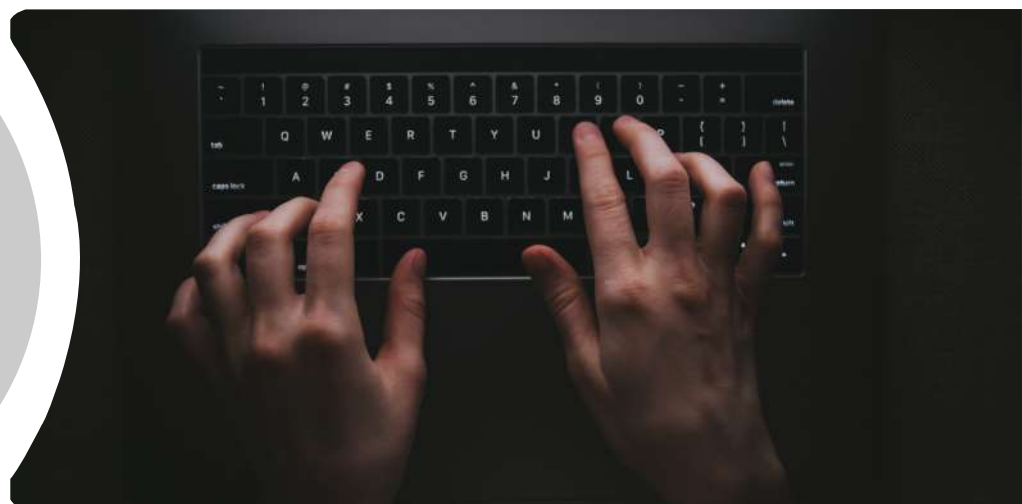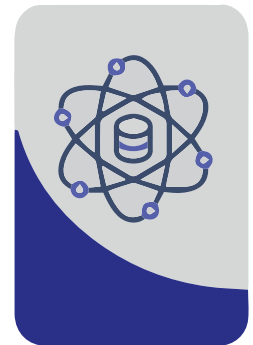- End to End ML Projects

Effective Dashboards using Power BI

- Introduction to Power BI
- Transform Data (Query Editor) - Part 01
- Transform Data (Query Editor) - Part 02
- Relational Data Model - Part 01
- Relational Data Model - Part 02
- Basics of DAX - Part 01
- Basics of DAX - Part 02
- Advance DAX Functions
- Creating Interactive Reports - Part 01
- Creating Interactive Reports - Part 02
- Creating Interactive Reports - Part 03
- Real- Time Industry Project 12
- Real- Time Industry Project 13

Statistics and Probability for Data Science

- Introduction to Machine Learning
- Set Theory
- Probability
- Statistics
- Probability Distribution
- Continuous Probability Distribution
- Inferential Stastistics
- Hypothesis Testing
- Non Parametric Tests

Navigate our road map to steer your career as a:

Dive into the eiIET Data Analytics and Data Science Diploma Program. Flexibility is key – learn at your own pace. Whether you're a quick learner or prefer a more leisurely approach, we provide lifetime access to course content. We're with you every step, ensuring a tailored and supportive journey.

01 Data Analyst

1. Python (Week 1 - 4)
2. SQL (Week 5-8)
3. MS EXCEL (Week 9-11)
4. R Programming (Week 12-14)
5. Maths & Stats (Week 15-16)
6. Power BI (Week 17 -20)
7. Tableau (Week 21 - 24)

02 Data Scientist

1. Python (Week 1-4)
2. SQL (Week 5-8)
3. MS EXCEL (Week 9-11)
4. R Programming (Week 12-14)
5. Maths & Stats (Week 15-16)
6. Machine Learning (Week 17 - 21)
7. Deep Learning (Week 22 - 26)
8. AI (Week 27-30)
9. Power BI (Week 31-33)
10. Tableau (Week 34-36)

Complete Your Course, Earn Your Certificate, Unlock Your Future.

Get ahead with a Diploma Certificate

Powered by eiIET

Differentiate yourself with Diploma Certificate

The knowledge and DADS skills you've gained working on the projects, simulations, case studies will set you ahead of competition.
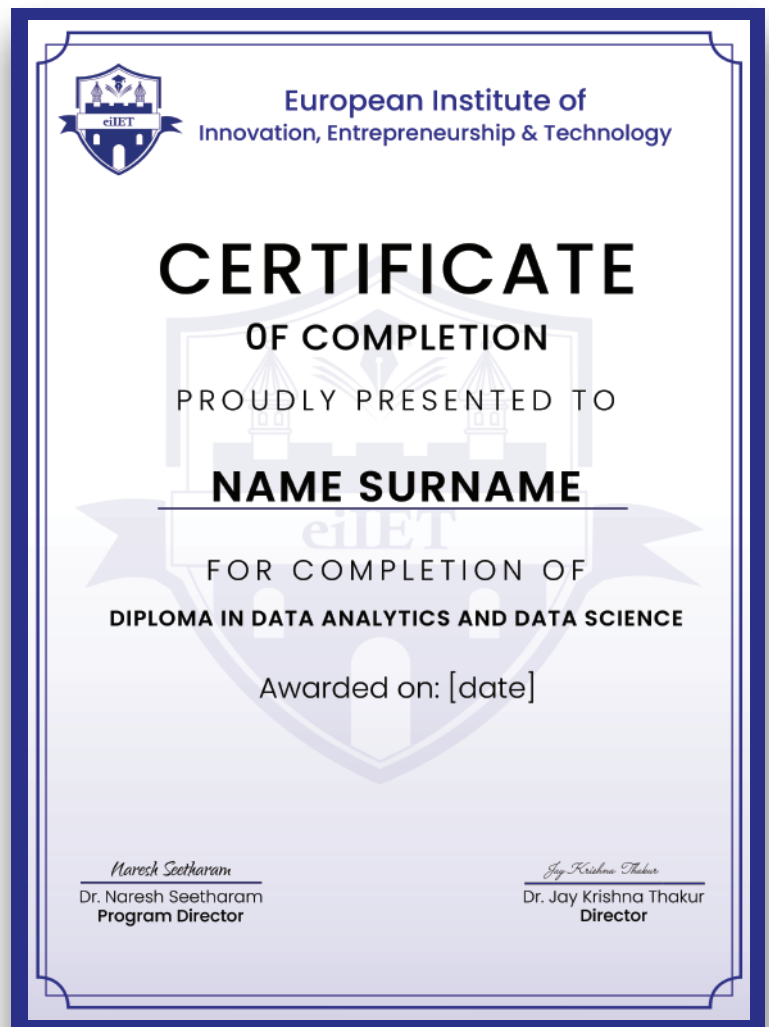
Earn your Executive Program in DADS Certificate

Our DADS Courses are exhaustive and this certificate is proof that you have taken a big leap in mastering the domain.

Share your Achievement

Talk about your DADS certificate on Linkedin, Twitter, Facebook, Boost your resume or frame it. Tell your Friends and colleagues about it.

European Institute of Innovation, Entrepreneurship & Technology

CERTIFICATE
OF COMPLETION

PROUDLY PRESENTED TO

NAME SURNAME

FOR COMPLETION OF

DIPLOMA IN DATA ANALYTICS AND DATA SCIENCE

Awarded on: [date]

Naresh Seetharam
Dr. Naresh Seetharam
Program Director

Jay Krishna Thakur
Dr. Jay Krishna Thakur
Director

FAQ's

01 **How eiIET is different from any other online skill development and learning platform?**
eiIET offers a comprehensive and structured learning path with a focus on practical applications and industry-oriented projects. With live sessions, one-on-one doubt clearing, and internship opportunities, eiIET provides a personalised learning experience to its learners. Additionally, its 100% Job Assistance program ensures that learners are not just job-ready but also get placement in top-tier companies.

02 **I don't have a coding background or IT experience, so how will this help me?**
Our program is beginner-friendly, starting from the basics and progressing step-by-step. It emphasises practical application, provides one-on-one support, includes soft skills training, and ensures you're job-ready, making it accessible and beneficial for individuals without coding or IT experience.

03 **Does this course cover everything?**
Our course comprehensively covers key topics in Data Analytics and Data Science, providing a robust foundation. From basics to advanced concepts, real-world projects, and soft skills training, we aim to equip you with the knowledge and skills necessary for success in the field.

04 **Who will be my Mentor?**
Your mentor in the Data Analytics and Data Science Program will be a seasoned industry expert with 15-20+ years of experience. These professionals have a rich background, having worked in top global companies. They bring a deep understanding of the latest tools, techniques, and industry trends to guide you through the program.

05 **What do the Data Analytics & Data Science projects look like?**
The projects in our program cover a spectrum of applications, ranging from Predictive Modeling and Data Visualization to Natural Language Processing, Fraud Detection, Recommender Systems, and more. These diverse projects provide hands-on experience, allowing you to apply your skills in real-world scenarios and build a robust portfolio.

06 **When will I be starting my internship?**
Internship timing varies based on the program and individual progress. Typically, internships are strategically integrated into the curriculum to ensure you have the necessary skills before embarking on real-world experience. You will receive guidance from our team to determine the optimal time for your internship based on your learning journey and readiness for practical application.

Germany

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13158 Berlin,
Germany

Singapore

30 Cecil Street, #19-08
Prudential Tower
Singapore - 049712

eiIET

"Building a Bridge to the Future through Innovation, Entrepreneurship, and Technology"

Contact us