Cyber Square®
PROFESSIONAL
where your IT work experience starts

DATA SCIENCE FOR PROFESSIONALS

COURSE BROCHURE

Duration: 6 Months

Lecture sessions: 72 Sessions & Hands on Assignments/projects Soft Skill Sessions
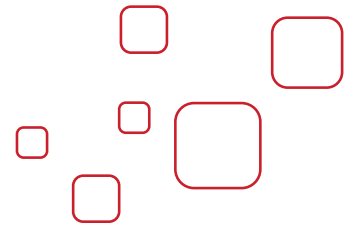
200 Institutes

12 Countries

1M Students

Empowering Tomorrow's High–Paying workforce with Internship–Driven Industry Experience

STEM.ORG ACCREDITED EDUCATIONAL EXPERIENCE

ORAY EDUCATION

https://cybersquare.pro/

About Cyber Square Professional

Immerse yourself in a unique learning experience where the virtual meets the real-world. Our courses go beyond conventional training, simulating a dynamic working environment that mirrors a global software company. Interns, dispersed worldwide, collaborate seamlessly on real projects, bringing the virtual workspace to life.

This international exposure not only sharpens the technical skills but also instills the collaborative spirit needed in today's interconnected software development landscape. Soft skills sessions are also seamlessly integrated, ensuring a holistic learning experience. Get ready to thrive in a virtual company setting, acquiring invaluable experience that transcends geographical boundaries.

https://cybersquare.pro/

NP HARIS

Conceptualizer & CEO

OUR CEO'S MESSAGE

Dear Future Software Engineers,

For over 12 years, CyberSquare Professional has been a leader in technology training, dedicated to producing quality software engineers. Our experience has enabled us to create a unique learning experience that bridges the gap between academic learning and real-world industry demands.

Introducing CS Pro, our state-of-the-art virtual company environment hosted in the cloud. Here, interns from around the globe collaborate on real-world products, gaining invaluable hands-on experience.

In CyberSquare Pro, you join a project team, receive daily lectures, and work under a Product Owner (PO) and Scrum Master in a real Agile environment. You will actively contribute to product development, enhancing features based on backlogs and roadmaps.

We believe that working on actual projects in a real Agile environment is the best way to truly understand the role of a software engineer. This hands-on experience is unmatched and ensures you are well-prepared for your future job.
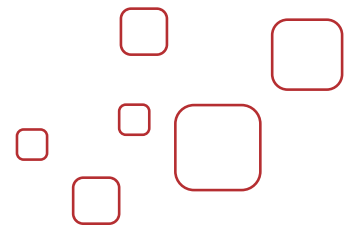
In addition to technical training, we focus on developing soft skills, human skills, and adhering to ethical standards in software development. This holistic approach ensures you are a well-rounded professional.

Join us at CyberSquare Pro and experience the most effective way to become a skilled software engineer. Let us help you build a successful career.

NP Haris

"Mastery in software development comes from hands-on experience. On-the-job training turns knowledge into skill and potential into excellence."
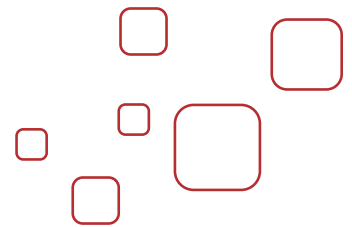
About the Course

This comprehensive Data Science course is designed to equip learners with the essential skills and tools required to excel in the world of data-driven decision-making. Starting with a foundational understanding of data science concepts, the course progresses through core programming with Python, essential mathematics, and robust data preprocessing techniques.

Specialized topics such as Natural Language Processing (NLP) and SQL for Data Science are included to ensure learners can handle real-world data challenges across diverse domains. With a focus on practical applications, the course features assessments, assignments, projects, and interview preparation resources at every stage, making it ideal for both beginners and professionals aiming to transition into a career in data science.

Learners will gain hands-on experience in exploratory data analysis and visualization using industry-standard libraries and tools like Matplotlib, Seaborn, Power BI, and Tableau. The course also delves into business intelligence, descriptive statistics, and machine learning, enabling students to build predictive models and extract actionable insights from data.
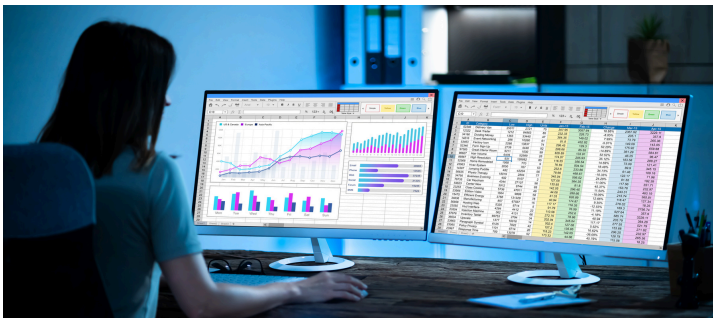
Reasons to Learn Data Science

High Demand Across Industries

Data is the new oil, and nearly every industry is investing in data-driven decision-making. From e-commerce and banking to healthcare and agriculture, companies rely on data science to predict trends, optimize operations, and understand consumer behavior.

This universal demand makes data science one of the most stable and in-demand career paths today.

Strong Community and Learning Resources

Whether you're a beginner or an expert, the data science community is full of forums, meetups, open-source projects, and mentors ready to help. Platforms like Kaggle, GitHub, and Stack Overflow provide rich opportunities to learn, practice, collaborate, and grow —no matter where you are in your journey.

Lucrative Career Opportunities

Data science consistently ranks among the top-paying tech roles worldwide. Skilled professionals often enjoy six-figure salaries, bonuses, and excellent perks.

Whether you become a data analyst, machine learning engineer, or data scientist, the compensation reflects the value you bring to an organization by uncovering insights that directly impact business success.

Versatile and Transferable Skills

Data science is not confined to a single domain —it equips you with analytical thinking, statistical reasoning, problem-solving, and programming expertise that are useful across roles like business analysis, software engineering, research, product management, and marketing analytics. These transferable skills open doors in diverse fields and make career shifts easier.

Helps Make Data-Driven Decisions

In a competitive world, gut instincts are no longer enough. Data science empowers you to make objective, data-backed decisions using facts and trends hidden in raw data. This leads to better business strategies, reduced risk, improved efficiency, and stronger evidence for any course of action you take—professionally or even personally.

Combines Creativity and Logic

Data science is a unique blend of art and science. While it requires strong logical and mathematical skills, it also demands creativity in designing models, finding patterns, visualizing data, and telling compelling stories from numbers. This makes the field highly engaging for both analytical thinkers and creative minds.

Future-Proof Career Path

As automation, AI, and big data become central to how we live and work, data science is only expected to grow. Upskilling in data science now ensures that you remain relevant in the future workforce, with career options that adapt and evolve with technological advancement.
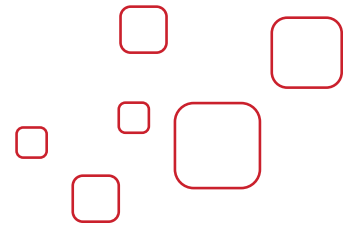
Who should take this course?

Python & React for whom?

This course is ideal for aspiring developers, tech enthusiasts, and professionals looking to enhance their skills and career prospects by mastering Python and React, two highly sought-after technologies in today's job market.

☐ Aspiring Data Scientists & Analysts

☐ Working Professionals Seeking a Career Shift

☐ Students & Recent Graduates

☐ Entrepreneurs & Business Owners

☐ Professionals in Finance, Marketing, or Operations

☐ Tech Enthusiasts & Lifelong Learners

Student Intern Status – International Point System

Embark on a structured learning journey with our **International Point System**, an essential aspect of our internship placement process.

By integrating activities such as LinkedIn profile creation, StackOverflow participation, and project development, this system encourages a comprehensive development approach, preparing students for successful careers.

This system not only establishes a standardized evaluation process but also motivates students to excel in their internship, enhancing their preparedness for future professional endeavors. Embrace the International Point System and set yourself on the path to a rewarding placement experience.

Point Accumulation

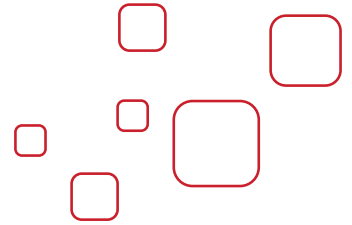Students earn points by successfully fulfilling the required tasks and objectives.

Mandatory Requirements

To be eligible for the placement process, students must complete a set of mandatory items outlined in our International Point System.

Minimum Required Points

Meeting the minimum required points is essential for students to qualify for the placement process. This ensures a fair and competitive environment.

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Course content

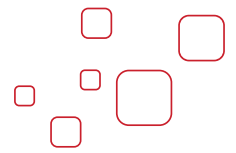## Sprint 1: Introduction to Data Science and environments

- Types of data
- Project lifecycle
- Questions
- Assessment,
- Assignment
- Reference
- Interview Preparation

Sprint 2: Core Python

- Python fundamentals
- OOPs
- Questions
- Assessment
- Assignment
- Reference
- Interview Preparation

Sprint 3: Mathematics for analytics

- Arrays
- Linear algebra
- Scalar
- Vectors and Matrix
- Tensor
- Assignment
- Assessment
- Reference
- Interview Preparation

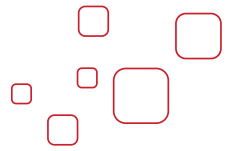## Sprint 4: Data Cleaning and preprocessing

- Introduction to Numpy and Pandas
- Numpy arrays
- Dataframes from scratch
- Data handling with pandas
- Assignment
- Assessment
- Reference
- Interview Preparation

Sprint 5: Exploratory data analysis

- What is Data visualization
- Types of Data visualization
- Data visualization with Matplotlib & Seaborn
- Assignment
- Assessment, Reference, Interview Preparation

Sprint 6: Business Intelligence - PowerBi/Tableau

- Introduction to PowerBi
- Components & Building blocks of PowerBi
- Power query editor, Connecting to web data
- Data cleaning & Transforming, Combining Data sources
- Data modelling
- Managing relationship
- Visualising Data with Power BI Reports
- Powerbi Workspace
- Data Preparation and Connection (Tableau Prep & Desktop
- Data Blending and Joins
- Data Cleaning and Transformation (Tableau Prep Builder)
- Assignment
- Assessment
- Reference
- Interview Preparation

Sprint 7: Descriptive Statistics

- Fundamentals of descriptive statistics
- Terminologies in statistics
- Measure of Central tendency and measure of variability
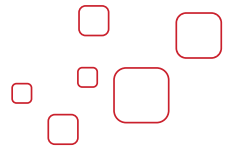- Assignment
- Assessment
- Reference
- Interview Questions

Sprint 8: Machine Learning - added old content for machine learning

- Introduction to AI & ML
- Supervised learning
- Unsupervised learning
- Reinforcement Learning
- Assignment
- Assessment
- Reference
- Interview Preparations

Sprint 9: NLP

- NLP Terminologies
- Finding frequency distinct in text
- Stemming
- Lemmatization
- Stop words
- POS Named entity recognition
- Assignment
- Assessment
- Reference
- Interview Preparation
- Project

Sprint 10: SQL For Datascience

- Database Concepts
- Relational Databases
- Primary Key
- Foreign Key
- Concepts
- Normalization(1NF,2NF,3NF..)
- DDL, DML, DCL, TCL Statements,
- Joins
- Aggregate & Window Functions(Analytical Functions)
- Specific SQL Dialects (PostgreSQL,MySQL)
- Assignment
- Assessment
- Reference,
- Interview Preparations
- Project

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CERTIFICATE

Classroom-Level Immersion: Delivered Digitally

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- CS Talent Show

Cyber Square Pro
Our Branch All Around World

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ON L1V6N2, Canada
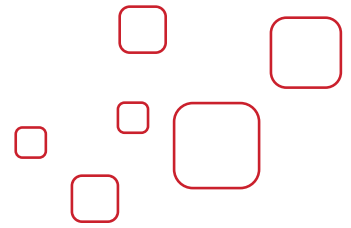+1 647 3722376

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More Information About us?

Contact Us!

Cyber Square Pro is a learning platform and resource hub for professionals looking to learn cutting-edge digital skills, whether they're coding novices or programming pros.

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Thank You!