Advanced Certification in

Data Science & Engineering

collegedunia.com | E&ICT NIT Patna | NATIONAL INSTITUTE OF TECHNOLOGY PATNA

E&ICT, NIT PATNA & COLLEGEDUNIA JOIN HANDS TO LAUNCH
ADVANCED CERTIFICATION COURSE IN DATA SCIENCE & ENGINEERING

Electronics & ICT Academy- NIT Patna & Collegedunia, India's leading Edtech portal have teamed up to offer **"Advanced Certification Course in Data Science and Engineering."** This is an eight months online course delivered by NIT Patna Faculty & Industry Experts. The program has been designed to benefit both the college students & experienced professionals. The students will be trained in various tools and techniques to become successful Data Scientists. The program also offers career services that include 1:1 mentorship, resume building workshops, & access to exclusive hiring events.

Data Science is the study of collecting, processing, integrating, and analyzing data to derive insights and valuable information for decision making. Data Science Jobs have increased by 650% since 2012. According to recruitment firm Michael Page's 2021 India Talent Trends report, 3-10 years of experience get annual salaries in the 25-65 lakhs range, while those with more experience can command pay packages upwards of 1 crore.

Dr. Bharat Gupta Chief Investigator E&ICT Academy highlighted the importance & role of the partnership "NIT Patna is providing the training to the faculty, students and professionals since 2015. Around 20,000 people have been trained till today. Demand for data scientists is increasing year by year at the rate of approximately 28% and around 11 million trained data scientists will be required by the year 2026. To cater to the future needs, E&ICT Academy NIT Patna has taken many steps forward. In this initiative, an MOU has been signed with Collegedunia Pvt. Ltd. as an Industry Partner.

Together, we are going to start the Advance Certification course in the field of data science as per the need of the time. We are utmost cautious to make sure the quality of the course is at par or better than both academia and industry. Together we aspire to take forward this endeavor in the best possible way."

Started in 1886, NIT Patna is the 6th oldest engineering institute in India and is the alma mater of many prominent public personalities, one to be especially noted is Nitish Kumar, Chief Minister of Bihar. NIT Patna is reputed for the coding culture among its computer science students. The institute will have frequent industry readiness assessments to inculcate similar traits in the students of this program.

NIT Patna Training & Placement Officer, Mr. Shailesh M Pandey shared his perspective about the innumerable employment opportunities this program would offer the students, especially in metro cities. He also added that the program collaboration with Collegedunia and their established wide network would ensure a hands-on experience for the students in emerging Data Science technology by inculcating real-time case studies and projects from the industry partners.

Founder and CEO of Collegedunia, Mr. Sahil Chalana stated that a career in Data Science and technology has been the most preferred stream among students for the past few years. He also added "Collegedunia's partnership with NIT Patna in offering a Data Science course will add value to the student's life and career in the long run. I am confident that with this course, students will gain advanced skills necessary to excel in the field of Data Science."

Business Head of Collegedunia Mr. Sanjay Meena has shared that the future prospect of any business and its growth would revolve around Data Science and this course would provide the students with a headstart in their Data Science career.
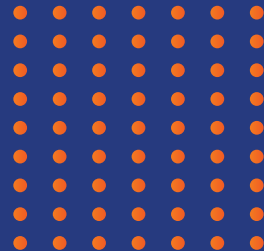
ABOUT
PROGRAM

Collegedunia & E&ICT Academy, NIT Patna' Advanced Certification in Data Science & Engineering is a program designed for fresh graduates & early career professionals looking to build their careers in data science & analytics. With a large number of job openings in analytics & data science, this program equips you with the right skills & knowledge needed to break into these roles. Collegedunia & E&ICT Academy, NIT Patna have collaborated with the industry to create a program that trains candidates specifically for roles such as Business Analysts, Data Analysts, Data Engineers, Analytics Engineers, Data Scientist & more by teaching relevant analytics techniques, tools, technologies, and hands-on applications through industry case studies.

KEY
HIGHLIGHTS

○ 32 weeks program

○ Profile Building Workshop

○ Course is divided into 7 modules

○ Interview Preparation Using Mock Interviews & Assessments

○ 8+ Case Studies & Capstone Projects

○ No Cost EMI Option

○ 10+ Tools and Programming Languages

○ Soft Skills Essential Training

○ Graded Assignments

○ Career Preparation through various workshops & mentorship sessions

JOIN THE DATA SCIENCE INDUSTRY

$103 B Big Data Market's worth in 2027

11.5 M Expected New Jobs in Data Science by 2026

28% Annual Job Growth by 2026
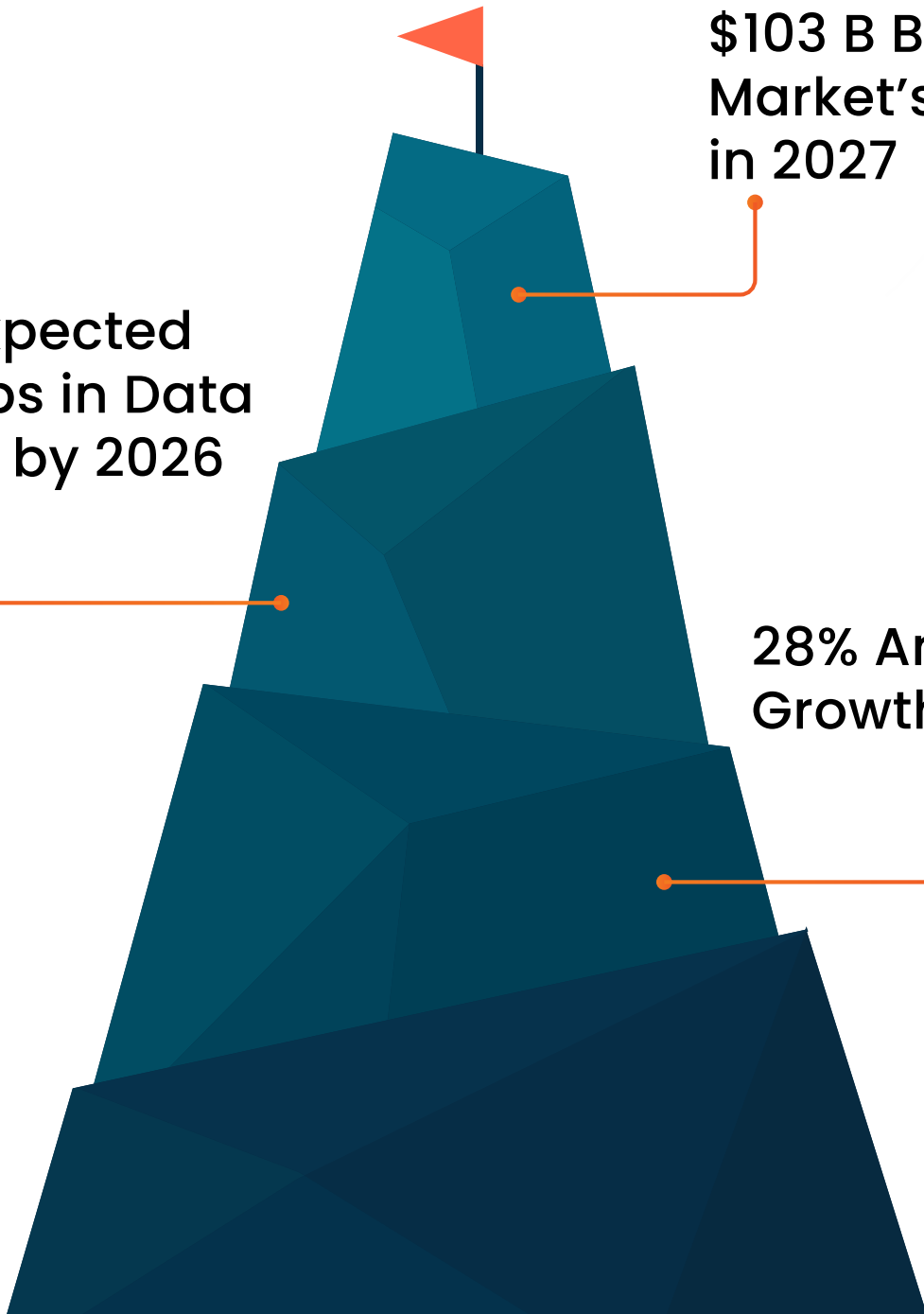
BENEFITS OF CHOOSING US

200+ Hrs Learning Hours

Industry Readiness Assessments

High-Performance Coaching (1:1)

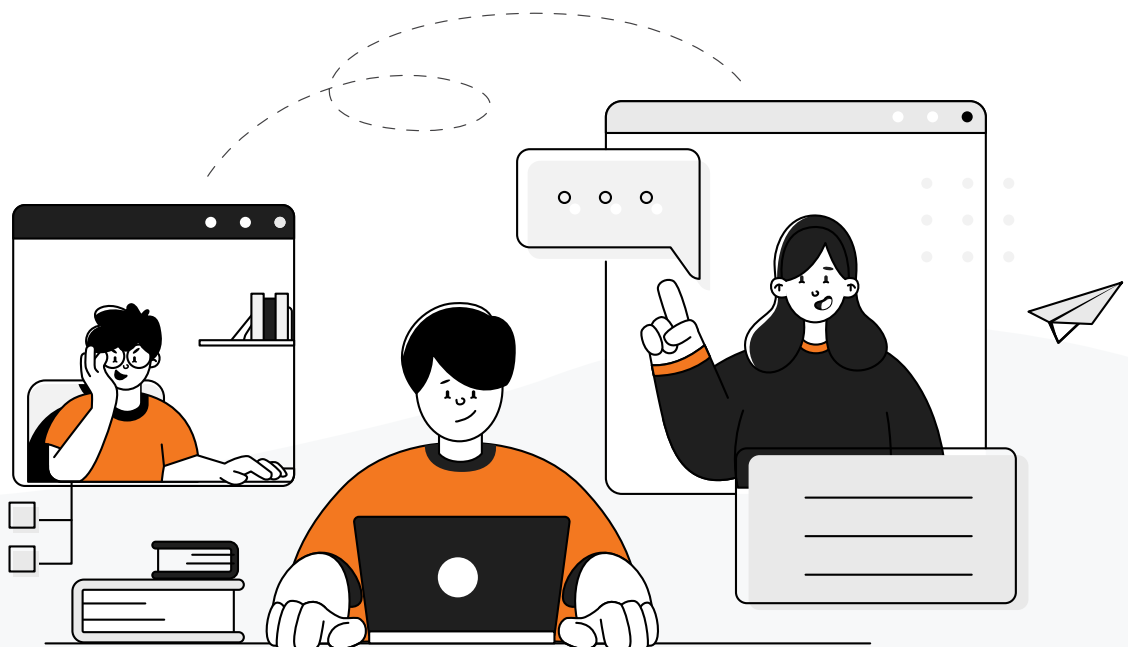**Live Personalized Mentorship in small groups**

Real-world industry-relevant projects

Career transition with up to 200% Salary Hike

TOOLS &
PROGRAMMING LANGUAGES

- Python

- SQL

- Machine Learning

- Numpy, Pandas, Matplotlib, Seaborn, Scikit Learn

- Tools - Anaconda, Jupiter Notebook, PyCharm,

  MySQL Work Bench

WHO CAN APPLY
FOR THE COURSE?

Any Engineer (fresher and experienced both)

Software and IT Professionals, Product and E-commerce Folks.

BFSI Professionals, Marketing and Sales Professionals.

Managers or Executives in Manufacturing, Construction, etc are eligible to apply.

Freshers who aspire to build their career in the field of Artificial Intelligence and Data Science

PROJECTS
LIST

Uber Supply - Demand Gap Analysist

The objective is to identify and analyze Uber Demand Supply: the problems in Supply-Demand of Uber trips from City to Airport and vice-versa across various hours of the day and find out possible solutions to address the problem.

Customer Churn Prediction

Churn prediction is probably one of the most important applications of data science in the commercial sector. The thing which makes it popular is that its effects are more tangible to comprehend and it plays a major factor in the overall profits earned by the business.

E-Commerce Data Analysis

Ecommerce analytics is the process of accumulating data from all of the areas that have an impact on your store. You should then use this data so that you can comprehend shifts in customer behavior and online shopping trends.

Automobile Price Prediction

A car price prediction has been a high-interest research area, as it requires noticeable effort and knowledge of the field expert. Considerable number of distinct attributes are examined for the reliable and accurate prediction

Google Play Store Data Analysis

Exploratory Data Analysis on Google Play Store Apps, Analyzing the Apps found on Google Play store to gain an insight into the present Android Market

SKILLS TO
MASTER

- Python
- Data Science
- Data Modeling
- MLOps
- Data Wrangling
- Prediction Algorithms
- Data Story Telling
- NLP
- PyCharm
- AI
- MySQL
- Data Visualization

INSTRUCTORS & FACULTIES

Punit Shah
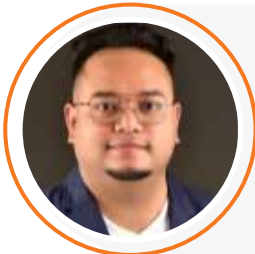**Specialist (Data science & Data Strategy), Synechron**

Punit has 10+ years of industry experience working with companies like Oracle, EXL etc.

Arun Ravi
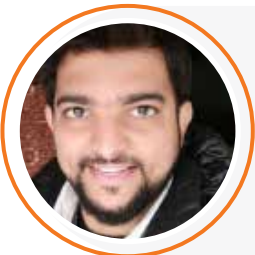**Senior Advisor, Sales Strategy & Planning, Dell**

Arun is working as a Senior Advisor at DELL, He is proficient in all modules ranging from SQL, Python, and ML

Ayushman Dehngia
Advisor, Sales Strategy & Planning, Dell

Ayushman holds 7+ years of experience in analytics industry working across Technology, BFSI and Retail domain.

Swapnil Desai
Data Scientist, Nomura

Swapnil is passionate about using data to solve problems. He has 6+ years of experience applying ML/NLP/DL/statistical analysis & modeling solutions to business problems.

Sumit Sourav
Data Science Specialist, Citi Bank

Sumit is working as Data Science Specialist at Citi. He is experienced in Credit Risk Modelling and ML model for Sales and Marketing for Financial Business

PROGRAM
CURRICULUM

Preparatory Course

Module-0

- Basics of Python

- Data Analysis in Excel

- Analytics in Problem Solving

Tools Covered

Foundation

Module-1

- Introduction to Programming using Python
- Syntaxt & Semantics of Programming
- Conditional Statements
- Loops
- Iterators
- User Defined Functions
- Numpy
- Pandas
- Matplotlib & Seaborn

Assignment & Case-Study

- Graded Assignment
- IMDB Case Study

Exploratory Data Analysis

Module-2

- Pandas for Data Cleaning & Data Manipulation
- Summary Statistics
- Seaborn
- Matplotlib

Tools Covered

Assignment & Case-Study

- Graded Assignment and Case Studies
- Iris Data Case Study

Statistical Methods for Decision Making

Module-3

- Probability Distribution
- Normal Distribution
- Poisson's Distribution
- Baye's Theorem
- Central Limit Theorem
- Hypothesis Testing
- One Sample T-Test
- Anova and Chi-Square

Tools Covered

Assignment & Case-Study

- Graded Assignment
- Statistical Techniques Case Study

SQL Programming

- Introduction to DBMS
- ER Diagram
- Schema Design
- Key Constraints & Basics of Normalization
- Joins
- Subqueries Involving Joins & Aggregations
- Independent Subqueries
- Correlated Subqueries
  Analytic Functions
- Set Operations
- Grouping & Filtering

Tools Covered

Assignment & Case-Study

- Graded Assignment
- Northwind Case Study

Machine Learning Techniques

- Linear & Logistic Regression
- Supervised Learning Classification
- Unsupervised Learning
- Ensemble Techniques

Assignment & Case-Study

- Graded Assignment
- Titanic Survival Prediction Case Study

Application of Data Science & Engineering

Module-6

- Time Series
- Text Mining
- Data Engineering Intro

Tools Covered

Project

Capstone Project

- E-Commerce Data Analysis
- Automobile Price Prediction

Capstone Project

The capstone project is considered as the cornerstone of your learning as you would gain the expertise to work with the tools of Data Science.

APPLICATION
PROCESS

Fill The Application Form
Apply by filling a simple online application form.

Interview Process
Go through a screening call with the Admission Director's office.

Join Program
An offer letter will be rolled out to the select few candidates. Secure your seat by paying the admission fee.

PROGRAM FEE

₹90,000+GST

Candidate can pay the program fee through Net Banking, Credit Cards or Debit Cards, Cheque/DD.

FINANCIAL AID

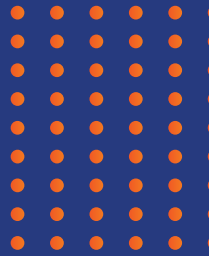Avail education loans at 0% interest rate with our corporate financial partnerships.

Conditions Apply. Please reach out to the adissions team for more details.

|CERTIFICATE

Collegedunia is offering an Advanced Certification in Data Science & Engineering course in association with E&ICT Academy, NIT Patna. The certificate of the program will be issued by E&ICT, NIT Patna.

- ✓ Get certified from E&ICT Academy,NIT Patna without quitting your job
- ✓ Cutting-Edge Curriculum Designed by Industry/Academic Experts
- ✓ Network with Data Science professionals across all industry sectors

E&ICT
NIT Patna

Electronics & ICT Academy
National Institute of Technology Patna

Certificate of Completion

This is to certify that

Kunal Singh

has successfully completed

the Advanced Certificate in Data Science & Engineering
conducted by Electronics & IT Academy NIT Patna in association with Collegedunia.

Name
Chief Investigator
E&ICT Academy, NIT Patna

Name
Director
Collegedunia

Issued on: 30ᵗʰ April, 2022 . Certificate ID: XXXXXXXX

CAREER PREPARATION

Training for Aptitude and Soft Skills

Resume/LinkedIn Profile Review Workshops

Interview Preparation Workshops & Mocks

LEARNING
JOURNEY

Let's Start

1

0 Weeks

Preparatory Course

3

7 Weeks

Machine Learning

2

13 Weeks

Data Science Foundation

4

6 Weeks

Capstone Project

Uber
Supply-Demand
Gap Analysis

Customer
Churn
Prediction

Advancd Certificate in
Data Science &
Engineering

Google Play
Store Data
Analysis

Automobile
Price Prediction

E-Commerce
Data Analysis
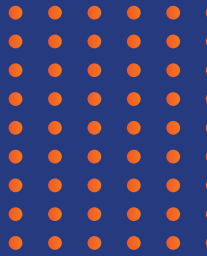
READY TO UPSKILL ?

APPLY NOW

For Further Information

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