ENTRI elevate

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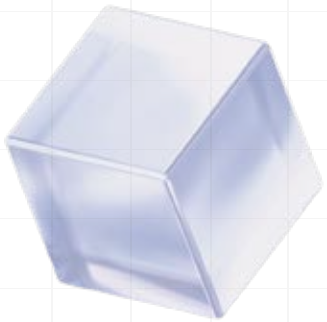
ILLINOIS TECH CERTIFIED

DATA ANALYTICS PROGRAM

INDUSTRY READINESS PROGRAM

About
Entri Elevate



Entri Elevate is an immersive training program meticulously crafted to enhance your skill set and transform you into a job-ready candidate. This program is meticulously designed and led by seasoned trainers who provide comprehensive guidance throughout your journey. With access to expert mentors from diverse top industries, Entri Elevate ensures you gain invaluable industry exposure essential for success in your chosen field.

In addition to technical classes, Entri Elevate offers soft skills sessions to equip you with the essential interpersonal and communication skills vital for succeeding in today's competitive job market. Through Entri Elevate, you'll not only gain proficiency in your chosen field but also develop the holistic skills necessary to excel in interviews and beyond.

Elevate
Data Analytics Program

About

Data Analytics is a top choice for professionals aiming to derive insights and make data-driven decisions. The Digital Analyst in Data Analytics training program offers certification to qualify for industry-grade roles. Analysts favor data analytics for its versatility and application across industries, powered by tools like Excel, Power BI, MySQL, and Python.

Format

Online
(Recorded Video Lectures + Interactive Mentored Learning)

Time Commitment

8-12 Hrs/Week

Duration

- Foundational Batch - 7 Months + 1 Month Capstone Project
- Elite Batch - 6 Months + 1 Month Capstone Project

Program Highlights

- Tailored Curriculum aligned with Industry Standards
- Inclusive & Immersive Hybrid Training Sessions
    a. Mentor-Led Live Core Sessions
    b. Self-Paced Learning Contents in Native Language (Malayalam)

- Free Soft Skills Training
- Industry Expert Sessions
- 80% Hands on Experience
- Placement Assistance for Eligible Learners
- Community Linking
- Certifications
    a. Mid Level Certification (Except for Data Science course)
    b. Entri Course Certification
    c. NSDC Certification - National
    d. Illinois Certification - International

Data Analytics Learning Path

- Pre-Learning Module
- Data Analysis Using Excel
- PowerBI
- MySQL
- Python
- Project Development
- Placement Training & Soft Skills

Assessments & Tasks

- Formative Assessment
    - Topic based Assignments
- Comprehensive Assessment
    - Module End Assignments
    - Mini Project
    - Capstone Project
- Summative Assessment
    - MCQ
    - Coding
- Competitive Tasks

Curriculum

Module 1

- Introduction to Data Analytics, Data Analytics Lifecycle, Types of Data Statistics Basics (Mean, Median, Mode, Variance, Standard Deviation). Introduction to Excel Interface, Basics of Excel, Spreadsheet basics, Data Entry. Fundamentals of Excel, Insertion, Deletion, Importing Data, Table Creation
- Introduction to Excel Formulas - sum(), min(), max(), count(), average(), if(), sumif(), countif(), averageif(), formatting text using right(), left(), mid(), upper(), lower(), proper().
- Power Query Introduction, Introduction to Data Cleaning,Removing duplicate data, Handling missing data, Correcting inconsistent data,Text-to-columns and Flash Fill
- Splitting and merging data,Data Validations,Data transformation, What-if analysis, scenario Manager,Removing unnecessary characters and spaces, Conditional formatting for data cleaning
- Data exploration and summary statistics, Filtering and Sorting data in excel,Descriptive Statistics,Mean, standard deviation, etc., using Analysis ToolPak,Mean, standard deviation, etc., using Analysis ToolPak
- Date and Time Functions:TODAY, NOW, YEAR, MONTH, WEEKDAY, DATEDIF,Lookup and Reference:VLOOKUP, HLOOKUP, XLOOKUP,INDEX, MATCH
- Introduction to Pivot tables, Creating Pivot tables, Connecting multiple tables and show analysing and creating visualization with multiple tables. Data Analysis and Visualization using Pivot Table.
- Data Visualization:Charts and Graphs,Bar, Column, Pie, Line, Scatter, Combo charts,Sparklines,PivotCharts,Dynamic charts with slicers and filters, create and design interactive dashboard.

Module 2

- Understanding the Power BI Ecosystem, Installation of PowerBI Desktop, Exploring the Power BI interface, Connecting to data sources
- Introduction to Power Query, Importing Data into Power Query, Data Cleaning and Transformation: Handling Missing Data and Duplicate Data, Sorting and Filtering Rows, Aggregating and Grouping Data in Power Query
- Introduction to Data Modeling, Normalization vs denormalization, Relationships in PowerBI, Cardinality, cross filter direction,Building Star schema data model
- What is DAX? , Calculated Columns and tables using DAX, Measures, Simple DAX Functions and Operators (Mathematical, Logical, Statistical & Text Functions), Advanced DAX – Aggregations and Calculations (Aggregate, Filter, Datetime, Time Intelligence & Table Functions)
- Data Visualization & Formatting - Bar, Column, Pie, Donut, Line, Area, Scatter, KPI & Gauge, Table, Matrix, Map, Tree map, Combo
- Applying Conditional Formatting And Data Bars ; Creating Hierarchies ; Filters, Slicers ; Drill-Downs
- Creating a comprehensive report in PowerBI
- Create bookmarks and buttons, Design a great PowerBI dashboard and publishing into PowerBi service

Mini Project 1

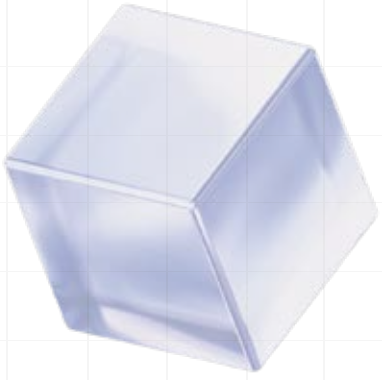
- Learn how to apply Data Analysis using Excel and PowerBI, mini project spanning 10 days.

Module 3

- Introduction to Databases, Overview of RDBMS, Normalization, Overview of MySQL
- Overview of MySQL Workbench, Installation of MySQL Workbench, Table and Terminologies
- Overview of SQL Commands (DDL,DML,DCL,TCL) and Datatypes
- DDL - CREATE, ALTER, RENAME, TRUNCATE, DROP
- Keys- PK, FK, SK, CK, composite, non-prime attribute
- Constraints - unique, not null, check, default, auto_increment ;
- DML - INSERT, SELECT, UPDATE, DELETE, DROP vs TRUNCATE vs DELETE
- SQL Clauses - DISTINCT, AS, WHERE, Operators (Arithmetic, Comparison, Logical)
- Other Operators - IS NULL, IS NOT NULL, IN, NOT IN, BETWEEN, NOT BETWEEN, LIKE, NOT LIKE, ORDER BY, LIMIT, Aggregate functions, GROUP BY, HAVING, INNER JOIN , LEFT JOIN, RIGHT JOIN, UNION, UNION ALL
- Built-in function: Mathematical, String , Date & time ; User-defined functions, Stored Procedures, Subqueries - single, multi-row; Views - simple, complex views, Triggers
- DCL- GRANT, REVOKE ; TCL - COMMIT, SAVEPOINT, ROLLBACK - ACID properties, show connecting mysql and powerbi

Mini Project 2

- Learn how to create and analyse databases using MySQL mini project, spanning 5 days.



Module 4

- Introduction to Programming Languages and Python, Installing Anaconda and Jupyter Notebook
- Google Colab walkthrough, Basic Python Syntax and Data Types
- Data Structures - String, String methods, String slicing, Tuple, Tuple methods, Immutable vs Mutable Data Types, Dictionary, Dictionary methods, Set, Set methods, Frozenset
- List creation, List methods, List slicing
- Operators ; Conditional statements - if, else, elif, while loop ; else, break & continue with while loop, range; for loop ; else, break & continue with for loop; nested for loop ; enumerate ; List Comprehension
- Build-in Functions & User Defined Functions- Types of arguments, Local and Global Namespace
- Introduction to OOPS Concepts; NumPy - NumPy arrays, Array operations and functions
- Pandas - Series & Dataframe, Data Ingestion
- Slicing, indexing (with index, boolean, loc, iloc) and manipulating (add,update,delete)
- Data Exploration (readcsv, head, tail, shape, columns, info, dtypes, describe, value_counts, isnull, dropna, fillna)
- Data Wrangling - merge, concat, join, group by
- Introduction to Data visualisation in Python- Visualization Using Matplotlib- Scatter Plot, Line Chart, Bar Chart, Pie Chart, Histogram, Box Plot; Visualization Using Seaborn- Count Plot, Bar plot, Scatter plot, Line plot, Box plot, Histogram, Density Plot, Violin Plot, Swarm Plot, Heatmap, Pair Plot

- Introduction to Webscraping, Module -BeautifulSoup, Selenium
- Extract data from website,Making Http request to fetch data
- Introduction to Pyspark, difference between Pandas and Pyspark, Connecting python and Mysql using Pyspark
- Connecting python dataframe to powerbi, and accessing powerbi reports in jupyter notebook.

Capstone **Project**

- Learn through industry projects
- Learn how to apply Data Analytics concepts through this exciting capstone project spanning 1 Month.

Career **Support**

- Benefit from Comprehensive Placement Assistance: Gain Access to Diverse Job Opportunities Across Various Industries.
- Experience Industry Mentorship: Receive Guidance from Seasoned Mentors at Leading Companies such as Tesla, Google, Samsung, and Zeta to Propel Your Career Forward.
- Resume Review Obtain specific, personalized inputs on your resume structure and content

Placement **Partners**

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ZENNODE Technologies LLP

ENNEXA™ TECHNOLOGIES

CODELAYER Technologies Pvt Ltd

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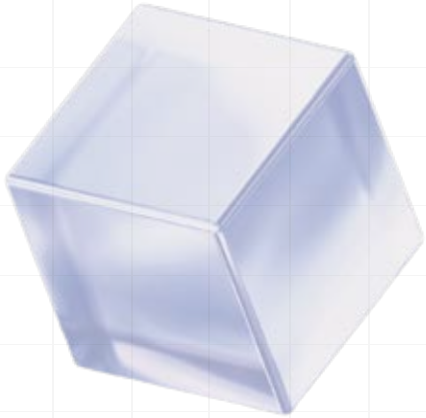

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Thank You!
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