



AVERIXIS SOLUTIONS

DATA SCIENCE

MENTORSHIP PROGRAM WITH INTEGRATED LCNC

Certification Partner



OUR EXPERT MENTOR PANEL FROM



Starting Point For Your Career Path

Our Mission & Vision

We help undergrad and post grad students struggling to get industrial experience with our Industry Grade Mentorship programs which help them to become corporate-ready individuals and possess the skillset to take on any challenges without any self-doubt.



Mission

To transform the way people learn and develop their skills by providing a dynamic and immersive upskilling platform that delivers hands-on learning and practical industry experience, empowering learners to achieve their full potential and thrive in the rapidly changing world of work.



Vision

To be the leading provider of hands-on upskilling solutions that connect students with the best industry experts and provide them with real-world industry projects to prepare them for success in their chosen careers.

Why Averixis Adopted LCNC(Low Code No Code)

Freshers, college students and the people with no coding knowledge can now build apps, websites on their own with the help of LCNC. This feature helps you discover the uncovered areas and boost your confidence even if you don't have any coding knowledge.

Feed your creativity hunger and come up with a faster and the most effective project completion ways with

India's No. 1 LCNC integrated curriculum.

Why Startups are Betting Big on Low-Code/No-Code

BY: SAQIB JAN on february 2, 2024

It is exhaustive — from infrastructure to app delivery, from data to applications — to modernize your practices, processes and providers to ensure you have the underlying foundation to take advantage of whatever comes next.

Two or three years ago, apps created through low-code/no-code platforms were not usually as detailed under the surface as software developed from scratch, yet they sufficed for certain purposes. There was even a clear distinction between software developers and everyone else out of necessity because software development was incredibly difficult to master.

But now, as we head towards more advanced AI, the SaaS-based low-code/no-code (LCNC) platforms empower businesses to create software exponentially faster and cheaper than a code-based approach.

PUBLISHED IN



Building No- and Low-Code Tools into Your Workflow

BY: Nick Kolakowski on Jun 6, 2024

The idea of "citizen developers" with little coding experience using no- and low-code platforms to build apps isn't a new concept; for many years, companies like Microsoft have released tools designed to empower pretty much anyone to produce mobile apps, games, and more.

While the idea of democratizing app-building is appealing to many, IT specialists and cybersecurity experts have long feared the not-so-controlled chaos that no- and low-code platforms could unleash within an organization with no guardrails in place.

The advent of generative AI may only heighten these fears, especially if employees rely on AI tools from outside their company's sanctioned tech stack to build things (a trend cheekily known as 'Bring Your Own Artificial Intelligence,' or BYOAI).

But the fact is, no- and low-code tools will likely become more powerful in the years ahead, and

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MONTH 01

WEEK 01

DAY
01

- ◆ Introduction to Data Science
- ◆ Overview of data science and its applications
- ◆ Key concepts: data wrangling, analysis, visualization, machine learning

DAY
02

- ◆ Introduction to Python for Data Science
- ◆ Setting up Python environment (Anaconda, Jupyter Notebooks)
- ◆ Basic Python syntax and data structures (lists, dictionaries, tuples, sets)

DAY 03

- ◆ Advanced Python Concepts
- ◆ Functions, loops, and conditionals
- ◆ List comprehensions and lambda functions

DAY 04

- ◆ Introduction to Pandas
- ◆ Creating and manipulating data frames
- ◆ Importing and exporting data (CSV, Excel, SQL)

DAY 05

- ◆ Data Cleaning with Pandas
 - ◆ Handling missing data, duplicates, and outliers
 - ◆ Data transformation and normalization
-
- **Live Project 1: Data Cleaning and Preprocessing**

WEEK 02

DAY
06

- Introduction to Data Visualization ◆
- Importance of data visualization ◆
- Overview of libraries: Matplotlib, ◆
Seaborn

DAY
07

- Data Visualization with Matplotlib ◆
- Creating basic plots (line, bar, scatter) ◆
- Customizing plots (titles, labels, legends) ◆

**DAY
08**

- Advanced Data Visualization with Seaborn
- Creating advanced plots (heatmaps, pairplots, violin plots)
- Customizing Seaborn plots

**DAY
09**

- Exploratory Data Analysis (EDA)
- Techniques for EDA
- Identifying patterns and trends in data

**DAY
10**

- Case Study: EDA on a Real Dataset
- Applying EDA techniques to a real-world dataset
- Drawing insights and conclusions

**Live Project 2: Exploratory Data Analysis
on a Dataset**

WEEK 03

DAY

11

- ◆ Introduction to Statistics for Data Science
- ◆ Descriptive statistics (mean, median, mode, standard deviation)
- ◆ Probability concepts

DAY

12

- ◆ Inferential Statistics
- ◆ Hypothesis testing
- ◆ Confidence intervals

DAY

13

- ◆ Introduction to Machine Learning
- ◆ Overview of machine learning concepts
- ◆ Types of machine learning: supervised, unsupervised, reinforcement

DAY

14

- ◆ Supervised Learning Algorithms
- ◆ Linear regression
- ◆ Logistic regression



DAY

15

- ◆ Evaluating Machine Learning Models
- ◆ Metrics for regression (MSE, RMSE, R-squared)
- ◆ Metrics for classification (accuracy, precision, recall, F1-score)
- **Live Project 3: Building and Evaluating a Machine Learning Model**

WEEK 04

DAY
16

- Unsupervised Learning Algorithms ◆
- K-means clustering ◆
- Principal Component Analysis (PCA) ◆

DAY
17

- Advanced Supervised Learning Algorithms ◆
- Decision trees ◆
- Random forests ◆

DAY
18

- Introduction to Model Deployment ◆
- Saving and loading models ◆
- Basics of model deployment ◆

DAY
19

- Time Series Analysis ◆
- Introduction to time series data ◆
- Basic techniques for time series analysis ◆

DAY
20

- Case Study: Time Series Forecasting ◆
- Applying time series techniques to a real-world dataset ◆
- Building a forecasting model ◆

Live Project 4: Time Series Forecasting •

MONTH 02

WEEK 05

DAY
21

- ◆ Introduction to Natural Language Processing (NLP)
- ◆ Basics of NLP
- ◆ Text preprocessing technique

DAY
22

- ◆ NLP Techniques
- ◆ Tokenization, stemming, lemmatization
- ◆ Bag of Words, TF-IDF

DAY 23

- ◆ Introduction to Deep Learning
- ◆ Overview of deep learning concepts
- ◆ Introduction to neural networks

DAY 24

- ◆ Building Neural Networks with Keras
- ◆ Creating and training a neural network
- ◆ Evaluating neural network performance



DAY 25

- ◆ Case Study: Text Classification
 - ◆ Building a text classification model
 - ◆ Evaluating model performance
-
- **Live Project 5: Text Classification Model**

WEEK 06

DAY
26

- Introduction to Big Data ◆
- Overview of big data technologies ◆
- Introduction to Hadoop and Spark ◆

DAY
27

- Data Processing with Spark ◆
- Introduction to PySpark ◆
- Performing data processing tasks ◆
with Spark

DAY
28

- Introduction to Cloud Computing for Data Science ◆
- Overview of cloud platforms (AWS, GCP, Azure) ◆
- Basics of using cloud services for data science ◆

DAY
29

- Deploying Machine Learning Models on Cloud ◆
- Introduction to cloud-based machine learning services ◆
- Deploying a model on AWS SageMaker or GCP AI Platform ◆

DAY
30

- Case Study: Big Data Processing and Model Deployment ◆
 - Processing large datasets with Spark ◆
 - Deploying a machine learning model on cloud ◆
- Live Project 6: Big Data Processing and Cloud Model Deployment •

WEEK 07

DAY
31

- ◆ Introduction to Generative AI in Data Science
- ◆ Overview of generative AI concepts
- ◆ Applications of generative AI in data science

DAY
32

- ◆ Using Generative AI for Data Augmentation
- ◆ Techniques for data augmentation
- ◆ Creating synthetic data with generative models

DAY 33

- ◆ Prompt Engineering Basics for Data Science
- ◆ Crafting prompts for AI models
- ◆ Using generative AI for data analysis

DAY 34

- ◆ Integrating AI-Generated Content into Data Science Projects
- ◆ Using AI APIs for data analysis and visualization
- ◆ Practical examples of AI integration



DAY 35

- ◆ Outcome-Driven Project with Generative AI
- ◆ Developing a complete project using generative AI
- ◆ Showcasing the final project
- **Live Project 7: AI-Powered Data Augmentation**

WEEK 08

DAY
36

- Advanced Techniques in Generative AI
- Advanced generative models (GANs, VAEs)
- Customizing generative models for specific tasks

DAY
37

- AI-Driven Data Visualization
- Using AI to enhance data visualization
- Creating interactive and dynamic visualizations

DAY
38

- AI for Automated Data Analysis
- Automating data analysis tasks with AI
- Using AI to generate insights and reports

**DAY
39**

- No-Code Tools for Data Science
- Overview of no-code platforms (e.g., DataRobot, Knime)
- Building data science projects without coding

**DAY
40**

- Outcome-Driven Project with No-Code Tools
- Developing a complete data science project using no-code tools
- Showcasing the final project
- Live Project 8: No-Code Data Science Project

12 Outcome-Driven Projects:

- Data Cleaning and Preprocessing
- Exploratory Data Analysis on a Dataset
- Building and Evaluating a Machine Learning Model
- Time Series Forecasting
- Text Classification Model
- Big Data Processing and Cloud Model Deployment
- AI-Powered Data Augmentation
- No-Code Data Science Project
- Sentiment Analysis on Social Media Data
- Customer Segmentation Using Clustering
- Predictive Maintenance Using Time Series Data
- Image Classification with Deep Learning

Generative AI and No-Code Tools Sessions:

- Introduction to Generative AI in Data Science
- Using Generative AI for Data Augmentation
- Prompt Engineering Basics for Data Science
- Integrating AI-Generated Content into Data Science Projects
- Outcome-Driven Project with Generative AI
- Advanced Techniques in Generative AI
- AI-Driven Data Visualization
- AI for Automated Data Analysis
- No-Code Tools for Data Science
- Outcome-Driven Project with No-Code Tools

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