



AVERIXIS



MACHINE LEARNING

MENTORSHIP PROGRAM WITH INTEGRATED LCNC



Certification Partner



OUR EXPERT MENTOR PANEL FROM



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WHO WE ARE?

Averixis is a pioneering edtech platform dedicated to transforming education through innovative and student-centric approaches. Recognized as **one of LinkedIn's top startups for 2023**, we take immense pride in our commitment to maintaining cutting-edge methodologies and prioritizing student outcomes.

Our mission is to empower students by providing them with the skills and knowledge necessary to thrive in today's rapidly evolving technological landscape. We have successfully helped over **100,000 students upskill** through our diverse and comprehensive programs.

At **Averixis** we offer We provide students with opportunities to work on **real-world projects, gaining practical and industrial experience** that enhances their employability and industry readiness. Our curriculum is designed to foster **critical thinking, practical skills, and a deep understanding of emerging technologies**, making us a leader in educational excellence. Join us and become a part of a dynamic community dedicated to achieving success and making a significant impact in the world.

Take the Right Turn, With Us!



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 Machine Learning
- ◆ Overview of machine learning
- ◆ Key concepts: supervised, unsupervised, reinforcement learning
- ◆ Applications of machine learning

DAY

02

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

**DAY
03**

- ◆ Python Libraries for Machine Learning
- ◆ Introduction to NumPy and Pandas
- ◆ Introduction to Matplotlib and Seaborn for data visualization

**DAY
04**

- ◆ Data Preprocessing and Cleaning
- ◆ Handling missing values, duplicates, and outliers
- ◆ Data normalization and standardization

**DAY
05**

- ◆ Exploratory Data Analysis (EDA)
 - ◆ Techniques for EDA
 - ◆ Visualizing data to identify patterns and trends
-
- **Live Project 1: Data Cleaning and EDA**

WEEK 02

DAY
06

- Introduction to Supervised Learning ◆
- Overview of supervised learning ◆
- Types of supervised learning ◆
algorithms

DAY
07

- Linear Regression ◆
- Understanding linear regression ◆
- Implementing linear regression in Python ◆

DAY
08

- Logistic Regression
- Understanding logistic regression
- Implementing logistic regression
in Python

DAY
09

- Evaluation Metrics for Regression
- Metrics: MSE, RMSE, R-squared
- Using metrics to evaluate model
performance

DAY
10

- Classification Algorithms
- Understanding classification algorithms
(KNN, SVM, Decision Trees)
- Implementing classification algorithms in Python

**Live Project 2: Regression and Classification
Models**

WEEK 03

DAY

11

- ◆ Advanced Classification Algorithms
- ◆ Understanding advanced algorithms (Random Forest, Gradient Boosting)
- ◆ Implementing advanced classification algorithms

DAY

12

- ◆ Evaluation Metrics for Classification
- ◆ Metrics: accuracy, precision, recall, F1-score, ROC-AUC
- ◆ Using metrics to evaluate model performance

DAY 13

- ◆ Hyperparameter Tuning and Model Optimization
- ◆ Grid search and random search
- ◆ Cross-validation techniques

DAY 14

- ◆ Introduction to Unsupervised Learning
- ◆ Overview of unsupervised learning
- ◆ Types of unsupervised learning algorithms



DAY 15

- ◆ Clustering Algorithms
- ◆ Understanding clustering algorithms (K-means, Hierarchical Clustering)
- ◆ Implementing clustering algorithms in Python
- **Live Project 3: Advanced Classification and Clustering**

WEEK 04

DAY
16

- Dimensionality Reduction ◆
- Overview of PCA and LDA ◆
- Implementing dimensionality reduction ◆
techniques

DAY
17

- Association Rule Learning ◆
- Understanding association rule learning ◆
(Apriori, Eclat)
- Implementing association rule learning in Python ◆

**DAY
18**

- Anomaly Detection ◆
- Understanding anomaly detection ◆
- Implementing anomaly detection techniques ◆

**DAY
19**

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

**DAY
20**

- Time Series Forecasting ◆
- Implementing time series forecasting models ◆
(ARIMA, Prophet)
- Evaluating time series models

**Live Project 4: Time Series Analysis
and Forecasting** •

MONTH 02

WEEK 05

DAY

21

- ◆ Introduction to Natural Language Processing (NLP)
- ◆ Overview of NLP
- ◆ Text preprocessing techniques

DAY

22

- ◆ Text Classification and Sentiment Analysis
- ◆ Implementing text classification models
- ◆ Sentiment analysis with Python

DAY 23

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

DAY 24

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



DAY 25

- ◆ Convolutional Neural Networks (CNNs)
- ◆ Understanding CNNs
- ◆ Implementing CNNs for image classification
- Live Project 5: Text Classification and Image Classification with CNNs

WEEK 06

DAY
26

- Recurrent Neural Networks (RNNs) ◆
- Understanding RNNs ◆
- Implementing RNNs for sequence data ◆

DAY
27

- Long Short-Term Memory (LSTM) Networks ◆
- Understanding LSTM networks ◆
- Implementing LSTMs for time series
and text data ◆

DAY
28

- Generative Adversarial Networks (GANs) ◆
- Understanding GANs ◆
- Implementing GANs for image generation ◆

DAY
29

- Transfer Learning ◆
- Understanding transfer learning ◆
- Implementing transfer learning with pre-trained models ◆

DAY
30

- Case Study: Applying Deep Learning Techniques ◆
- Applying deep learning techniques to a real-world problem ◆
- Building and evaluating a deep learning model ◆

Live Project 6: Sequence Prediction with RNNs and LSTMs •

WEEK 07

DAY
31

- ◆ Introduction to Generative AI
- ◆ Overview of generative AI concepts
- ◆ Applications of generative AI

DAY
32

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

DAY 33

- ◆ Prompt Engineering Basics for Machine Learning
- ◆ Crafting prompts for AI models
- ◆ Using generative AI for data analysis

DAY 34

- ◆ Integrating AI-Generated Content into Machine Learning Projects
- ◆ Using AI APIs for data generation and analysis
- ◆ 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 Machine Learning
- Overview of no-code platforms (e.g., DataRobot, Knime)
- Building machine learning projects without coding

DAY
40

- Outcome-Driven Project with No-Code Tools
 - Developing a complete machine learning project using no-code tools
 - Showcasing the final project
- Live Project 8: No-Code Machine Learning Project**

12 Outcome-Driven Projects:

- Data Cleaning and EDA
- Regression and Classification Models
- Advanced Classification and Clustering
- Time Series Analysis and Forecasting
- Text Classification and Image Classification with CNNs
- Sequence Prediction with RNNs and LSTMs
- AI-Powered Data Augmentation
- No-Code Machine Learning Project
- Customer Segmentation Using Clustering
- Predictive Maintenance Using Time Series Data
- Image Classification with Transfer Learning
- Sentiment Analysis on Social Media Data

Generative AI and No-Code Tools Sessions:

- Introduction to Generative AI
- Using Generative AI for Data Augmentation
- Prompt Engineering Basics for Machine Learning
- Integrating AI-Generated Content into Machine Learning 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 Machine Learning
- Outcome-Driven Project with No-Code Tools

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