ARTIFICIAL INTELLIGENCE

MENTORSHIP PROGRAM WITH INTEGRATED LCNC

Certification Partner

Microsoft

OUR EXPERT MENTOR PANEL FROM

Microsoft | Google | Adobe | Uber | TECH mahindra | JCB

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LinkedIn™ TOP STARTUP 2023

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 **averixis** 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 wich 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 dont 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 DevOps.com

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 A.I. may only heighten these fears, especially if employees rely on A.I. 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

PUBLISHED IN Dice

MONTH 01

WEEK 01

DAY 01

- IIntroduction to Artificial Intelligence (AI)
- Overview of AI
- History and evolution of AI
- Applications of AI in various industries

DAY 02

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

DAY 03

- Python Libraries for AI
- 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 Machine Learning
- Overview of machine learning
- Types of machine learning: supervised, unsupervised, reinforcement learning

DAY 07

- Supervised Learning Algorithms
- Linear regression
- Logistic regression
- Decision trees

DAY 08

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

DAY 09

- Evaluation Metrics for Machine Learning Models
- Metrics for regression (MSE, RMSE, R-squared)
- Metrics for classification (accuracy, precision, recall, F1-score)

DAY 10

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

- **Live Project 2: Building and Evaluating Machine Learning Models**

WEEK 03

DAY 11

- Introduction to Neural Networks
- Basics of neural networks
- Activation functions, loss functions

DAY 12

- Deep Learning with Keras and TensorFlow
- Building neural networks with Keras
- Training and evaluating deep learning models

DAY 13

- Convolutional Neural Networks (CNNs)
- Understanding CNNs
- Implementing CNNs for image classification

DAY 14

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

DAY 15

- Transfer Learning
- Using pre-trained models
- Fine-tuning models for specific tasks

- **Live Project 3: Image Classification with CNNs and Transfer Learning**

WEEK 04

DAY 16

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

DAY 17

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

DAY 18

- Sequence-to-Sequence Models
- Understanding seq2seq models
- Implementing seq2seq models for machine translation

DAY 19

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

DAY 20

- Reinforcement Learning Basics
- Introduction to reinforcement learning
- Q-learning and deep Q-networks (DQNs)

- **Live Project 4: Text Classification and GAN-based Image Generation**

MONTH 02

WEEK 05

DAY 21

- Advanced Deep Learning Techniques
- Autoencoders
- Variational Autoencoders (VAEs)

DAY 22

- Attention Mechanisms and Transformers
- Understanding attention mechanisms
- Introduction to transformer models

DAY 23

- Building AI Applications
- Combining different AI techniques
- Developing end-to-end AI applications

DAY 24

- AI in Computer Vision
- Object detection and recognition
- Implementing computer vision models

DAY 25

- AI in Natural Language Processing
- Advanced NLP techniques
- Implementing NLP models for chatbots and translation

- **Live Project 5: Developing an AI Application**

WEEK 06

DAY 26

- AI in Healthcare
- Applications of AI in healthcare
- Case studies of AI in medical diagnosis

DAY 27

- AI in Finance
- Applications of AI in finance
- Case studies of AI in trading and risk management

DAY 28

- AI in Autonomous Systems
- AI for autonomous vehicles and drones
- Implementing autonomous system models

DAY 29

- AI Ethics and Governance
- Ethical considerations in AI
- AI governance and regulations

DAY 30

- Future Trends in AI
- Emerging trends in AI research
- Potential future applications of AI

- **Live Project 6: Case Study on AI Applications in Healthcare or Finance**

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 AI
- Crafting prompts for AI models
- Using generative AI for data analysis

DAY 34

- Integrating AI-Generated Content into AI 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 AI
- Overview of no-code platforms (e.g., DataRobot, Knime)
- Building AI projects without coding

DAY 40

- Outcome-Driven Project with No-Code Tools
- Developing a complete AI project using no-code tools
- Showcasing the final project

- **Live Project 8: No-Code AI Project**

12 Outcome-Driven Projects:

- Data Cleaning and EDA
- Building and Evaluating Machine Learning Models
- Image Classification with CNNs and Transfer Learning
- Text Classification and GAN-based Image Generation
- Developing an AI Application
- Case Study on AI Applications in Healthcare or Finance
- AI-Powered Data Augmentation
- No-Code AI Project
- Sentiment Analysis on Social Media Data
- Object Detection and Recognition
- Autonomous Vehicle Model
- Reinforcement Learning for Game Playing

Generative AI and No-Code Tools Sessions:

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

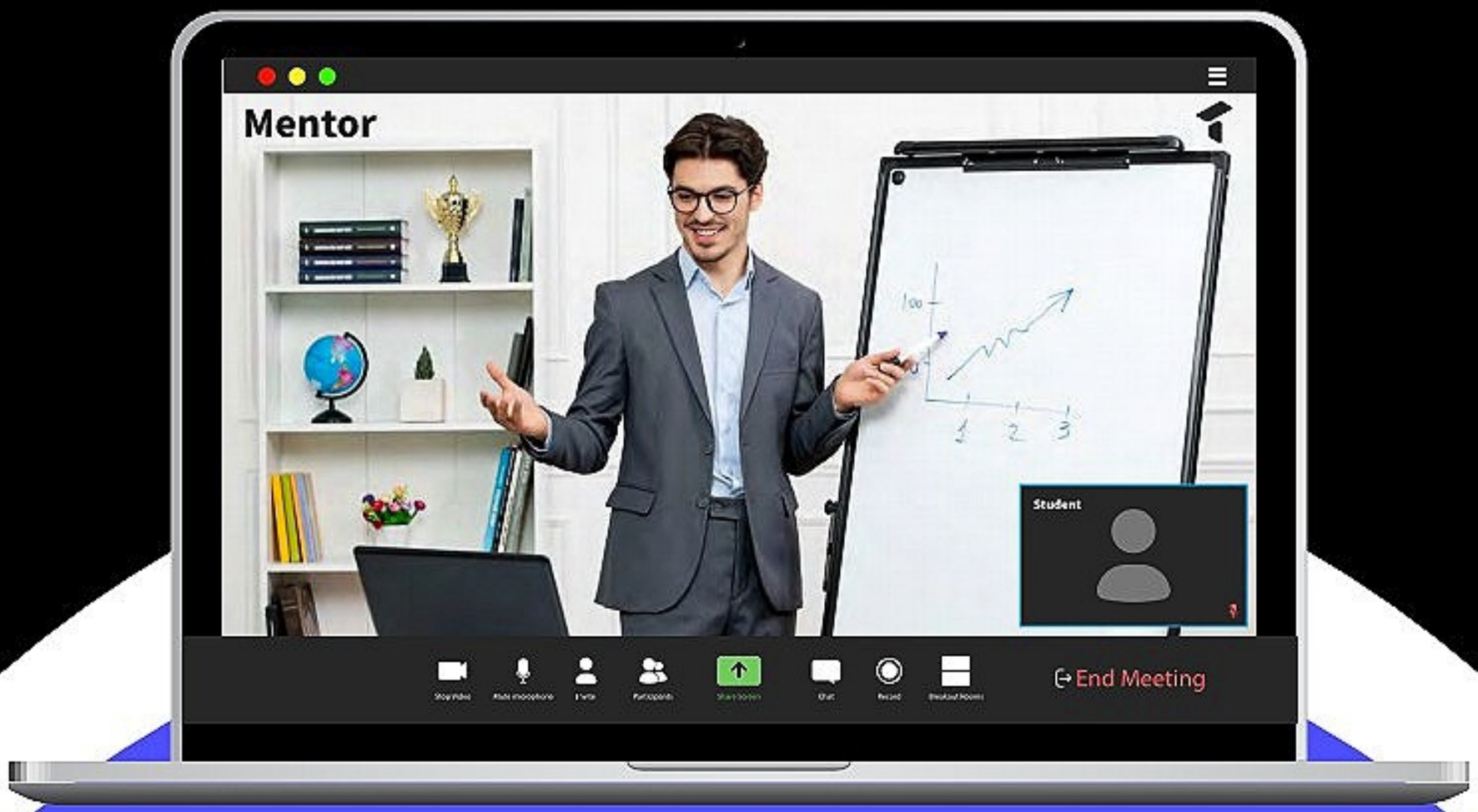
Our Alumni Work At

Get a personal instructor who is dedicated to you in each and every step of your project.

Stuck at a point?

Doubts?

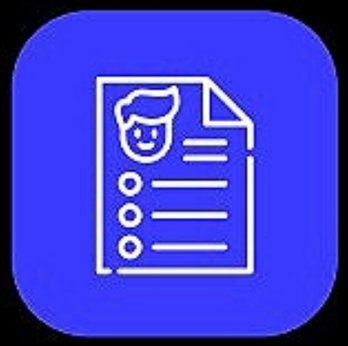
Need assistance?



We have got you covered.

Teachnook's Personal Instructors are here to help.

SUPPLEMENTARY PERKS



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