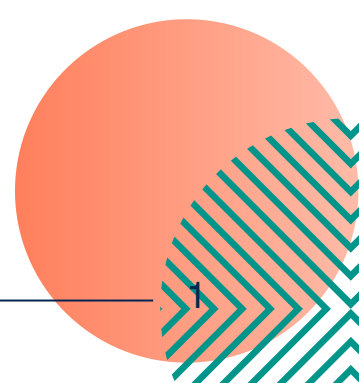
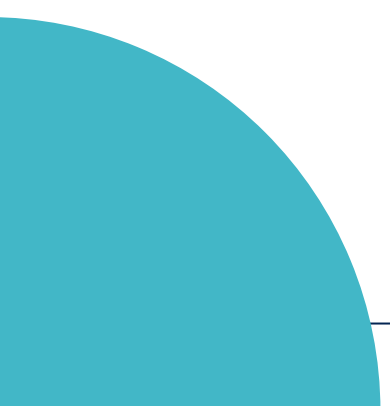
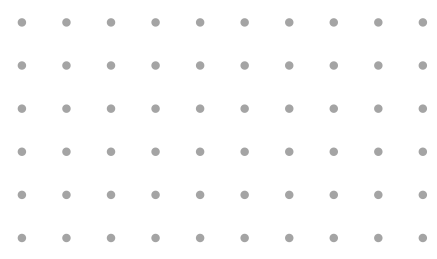




AI & MACHINE LEARNING WITH PYTHON

Empower your future by mastering the fundamentals of AI and Machine Learning, the driving forces behind tomorrow's innovations.



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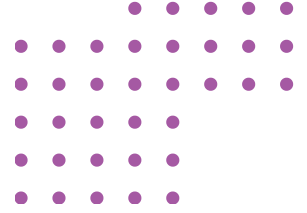
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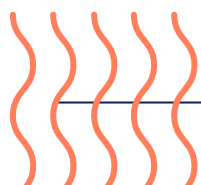
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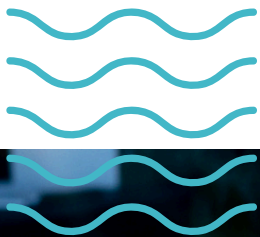
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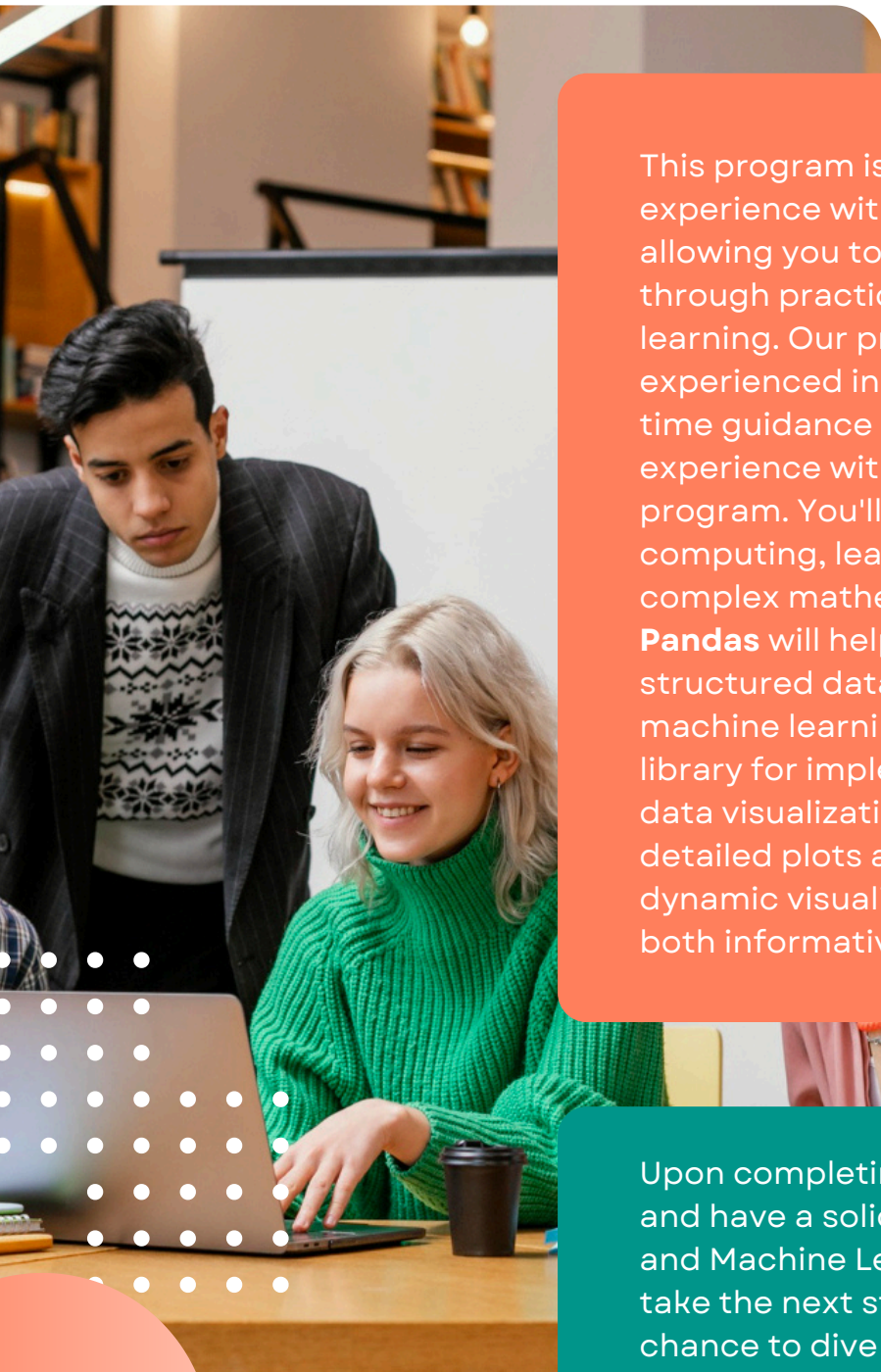
WHY LEARN AI & MACHINE LEARNING WITH PYTHON?

As businesses and organizations increasingly rely on AI to drive innovation, the demand for professionals with these skills is soaring. Learning AI and Machine Learning is more crucial now than ever before. The demand for professionals in these fields is skyrocketing, with job opportunities for AI and Machine Learning engineers expected to grow by nearly 40% in the coming years. By 2025, the AI industry is projected to exceed \$190 billion, driving innovation across various sectors and creating millions of new jobs globally.

Learning AI and Machine Learning not only opens doors to some of the most exciting opportunities but also empowers you to be at the forefront of technological advancements. To help you start your journey, we've created a program that offers lasting value and continues to be highly sought after. Yoll Academy's AI & Machine Learning Program offers a well-rounded introduction to the field, focusing on essential concepts and emerging technologies.

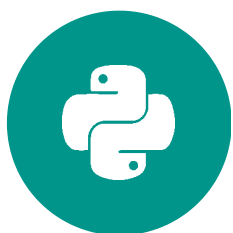


COURSE OVERVIEW



This program is designed to give you hands-on experience with real-world tools and applications, allowing you to explore AI and Machine Learning through practical exercises and collaborative learning. Our program offers live sessions with experienced instructors, providing you with real-time guidance and support. You'll get hands-on experience with essential tools throughout the program. You'll start with **NumPy** for numerical computing, learning to handle arrays and perform complex mathematical operations. Moving forward, **Pandas** will help you manipulate and analyze structured data efficiently. As you delve into AI & machine learning, **Scikit-learn** will be your go-to library for implementing and evaluating models. For data visualization, you'll use **Matplotlib** to create detailed plots and **Plotly** to develop interactive, dynamic visualizations, making your data insights both informative and engaging.

Upon completing this program, you'll master Python and have a solid understanding of Data Analysis, AI, and Machine Learning principles, preparing you to take the next steps in your tech career. This is your chance to dive into the world of AI, harness its power, and become a key player in the fast-evolving tech landscape. While it's not a job-ready program, it's an excellent way to get your feet wet and build a strong foundation in AI



PYTHON PROGRAMMING



MODULE 1

Data Types, Variables, Type Conversions

In this module, you'll explore the core building blocks of Python, learning how to work with different data types and variables. You'll also master type conversions, ensuring your code is adaptable and efficient.



MODULE 2:

Control Flow Statements

This module introduces control flow statements, such as if, else, and elif, enabling you to make decisions within your programs. You'll learn how to control the execution flow of your code based on different conditions.



MODULE 3:

Loops

Loops are essential for performing repetitive tasks in programming. In this module, you'll learn to use for and while loops to automate repetitive tasks and process data efficiently, making your code more powerful and concise.



MODULE 4:

Functions

Functions allow you to organize your code into reusable blocks. This module teaches you how to define and call functions, pass arguments, and return values, making your programs more modular and easier to manage.



MODULE 5:

Advanced Functions, Lambda

Delve into more complex function concepts, including lambda functions and higher-order functions. You'll learn how to write concise, powerful code by leveraging these advanced techniques, enhancing your programming capabilities.



DATA ANALYSIS & VISUALIZATIONS



MODULE 1

Data Analysis with NumPy

In this module, you'll learn to manipulate numerical data using NumPy, a fundamental library for data analysis in Python. You'll explore array operations, mathematical functions, and how to handle large datasets efficiently.



MODULE 2:

Data Analysis with Pandas

Building on your NumPy knowledge, this module introduces Pandas, a powerful tool for data manipulation. You'll learn to work with DataFrames and Series, enabling you to clean, filter, and analyze complex datasets with ease.



MODULE 3:

Statistical Analysis

This module focuses on applying statistical methods to analyze data. You'll learn to calculate key statistical measures, such as mean, median, and standard deviation, and perform hypothesis testing to draw meaningful insights from your data.



MODULE 4:

Data Visualization with Matplotlib

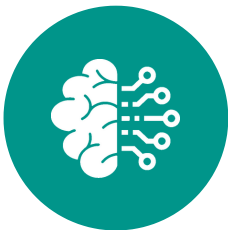
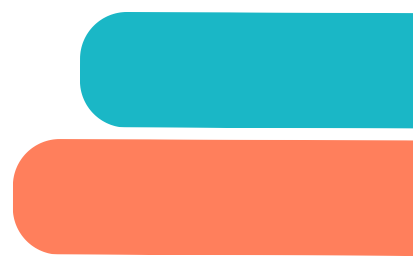
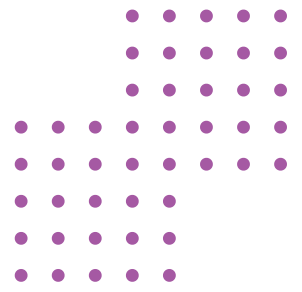
Visualizing data is crucial for interpreting results. In this module, you'll learn to create various plots using Matplotlib, including line graphs, bar charts, and scatter plots, to effectively communicate your findings.



MODULE 5:

Data Scraping

Data scraping is a powerful technique for collecting data from the web. This module will teach you how to use Python libraries to extract data from websites, process it, and prepare it for analysis.



AI & MACHINE LEARNING



MODULE 1 **Model Performance Evaluation**

Evaluating your model's performance is crucial to understanding its effectiveness. This module teaches you how to assess model accuracy, precision, recall, and other key metrics to refine and improve your machine-learning models.



MODULE 2: **Data Cleaning and Balancing with Pandas**

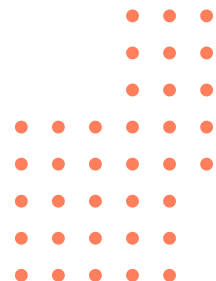
Clean and balanced data is key to building accurate models. In this module, you'll use Pandas to clean, preprocess, and balance datasets, ensuring that your data is ready for machine learning applications.



MODULE 3: **Feature Selection and Engineering**

Selecting the right features is critical to the success of your models. This module covers techniques for identifying and engineering relevant features and optimizing your data for better model performance.





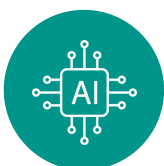
MODULE 4:
Data Splitting Techniques

Properly splitting your data into training, testing, and validation sets is essential to avoid overfitting and underfitting. In this module, you'll learn best practices for data splitting, ensuring your models are well-tested and reliable.



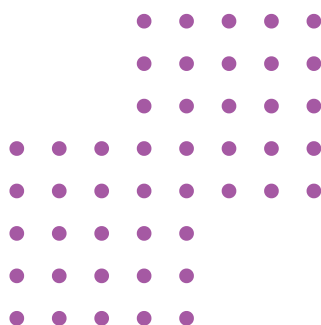
MODULE 5:
Machine Learning with Scikit-learn

Dive into machine learning with Scikit-learn, a leading library for building models. You'll learn to implement algorithms like linear regression and random forests, making predictions and evaluating model performance



MODULE 6:
Introduction to AI & Prompt Engineering

Begin your journey into AI with an introduction to core concepts and prompt engineering. You'll explore how AI models work and how to craft effective prompts to interact with AI systems, setting the stage for deeper learning.





PACE & SCHEDULE

At Yoll Academy, we understand that your approach to studying is just as crucial to your success as the material you're learning. Supported by our online learning management system and personalized guidance, every student benefits from an exceptional learning experience



COURSE LENGTH:
12 WEEKS



COMMITMENT NEEDED:
~20 HOURS
HOURS/WEEK (INCLUDING LIVE CLASSES)

SCHEDULE:



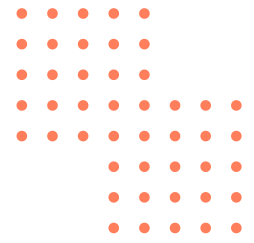
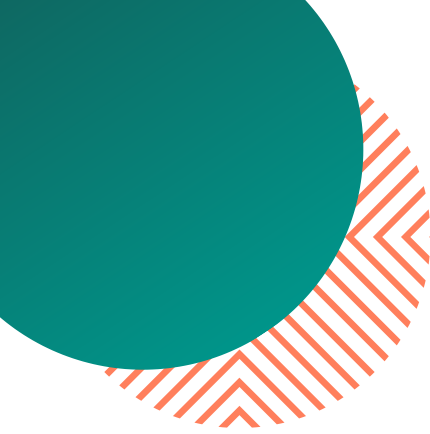
LIVE ONLINE CLASSES:

TUESDAY, THURSDAY : 7 -10 PM EST
SUNDAY: 9:30 AM - 12:30 PM EST



MENTORING:

SATURDAY : 9:30 AM - 12:30 PM EST



PRICING

ALUMNI GETS ADDITIONAL
10% DISCOUNT

TRACK 1

PYTHON PROGRAMMING

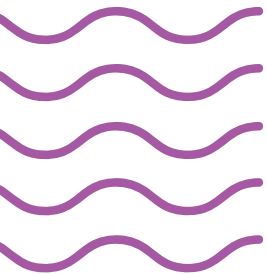
PAYMENT PLAN:

\$400

A MONTH FOR 2 MONTHS

TOTAL:

\$800



TRACK 2

PYTHON + AI AND MACHINE LEARNING

PAYMENT PLAN:

\$560

A MONTH FOR 5 MONTHS

TOTAL:

\$2800





WHY YOLL ACADEMY?

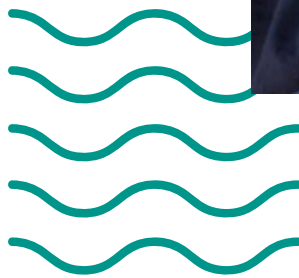
Yoll Academy's primary objective is to equip students for success in any job market. To achieve this, our curriculum is continuously reviewed by expert instructors and integrates the latest emerging technologies, including Applied AI. The course emphasizes a hands-on, community-driven learning experience, featuring lab work, real-world portfolio development, and exclusive access to instructors.

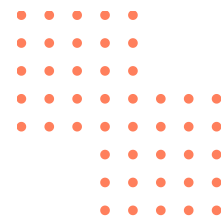




LET'S HEAR FROM YOU

Education should be the best investment you make – and at Yoll Academy, we're committed to helping you learn the skills to change your future. We provide the skills, community, and immersive, outcomes-driven curriculum you need to launch a career in SDET, Salesforce Development, DevOps Engineering, Full Stack Development, AI & Machine Learning.





FOR INQUIRIES, CONTACT US



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