

No Code - Machine Learning

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Machine learning and artificial intelligence are two domains of technology that are quickly evolving and being used in a variety of industries, including finance, education, and business. Today's businesses rely on information and insights, which are based on data. And we need machine learning to analyse this data, which is typically in an unstructured format. Following that, we'll need AI to give individualised services on a large scale. However, mastering machine learning is extremely difficult and time-consuming. This led to the birth of No-Code ML!

After technological advancements and the availability of both no-code machine learning platforms and libraries, the limits to using and applying ML models in applications have decreased. Machine learning is becoming more accessible than ever before as the industry expands.

[According to Gartner, the global market for low-code application platforms is estimated to reach \\$30 billion by 2025, compounding at a rate of 23% annually. For application development, workflow apps, web and mobile front ends, customer-facing applications, and machine learning platforms are frequently employed.](#) In this piece, we'll look at how No Code ML works, as well as its benefits, drawbacks and future.

What exactly is No-code?

The holy grail is to be able to create whatever you can think of without writing a single line of code. A no-code development platform is a visual development interface that allows developers to create mobile and web applications using established templates, pre-built logic models, drag-and-drop application components, links to other components, and so on, all without knowing how to code.

No-code technologies are frequently aimed at business users, allowing them to easily transform corporate use cases into applications on their own. This "Zero-Code" platform does not necessitate users to have prior coding skills in order to create applications using no-code.

The Distinction Between No-Code and Low-Code

No-code software development decouples programming languages and syntax from logic in favour of a visual approach to software development, allowing for faster delivery. In this way, no-code development is comparable to low-code development. Low-code platforms, on the

other hand, employ less abstraction (that is, they integrate some coding and need some programming language knowledge) and are frequently used by experienced developers within an enterprise IT department.

Non-programmers will find no-code software blocks easier to use, but it will be more difficult to add more sophisticated activities. IT specialists with some programming experience, on the other hand, may employ low-code tools to add such discrete functionalities. Low-code platforms also provide improved integration with legacy systems, as well as increased application development, testing, and extensibility.

How are ML and No-code intertwined?

No-code ML is a subset that tries to make ML more accessible. To deploy AI and machine learning models, no-code ML involves adopting a no-code development platform with a visual, code-free, and frequently drag-and-drop interface. Non-technical people may quickly classify, evaluate, and develop accurate models to make predictions with no code ML.

Many AI and Machine Learning firms claim to democratise AI, which is undoubtedly true for their target users, who are typically still regular engineers. Those developing no-code tools come the closest to the objective of "everyone without prior knowledge." These easy-to-use machine learning platforms make use of the time/value/knowledge trade-off in a genuinely appealing way, allowing users with no AI coding experience to improve day-to-day operations and solve business problems.

Traditional ML vs. No-Code ML

Most AI programmes nowadays follow a similar path. Indeed, you begin by selecting a use case, collecting data, building a model, training it, and improving it, among other things. To see if no-code AI can actually assist, we must first comprehend the differences between "traditional" and "no-code" machine learning.

Drag and drop tools can automate or simplify several procedures in a "conventional" AI project. In this light, we see no-code AI platforms as a quick approach to produce prototypes and demos.

How do No-Code Machine Learning platforms operate?

To construct functions and features in a computer application, programmers must personalise and write every line of code in traditional application development. This necessitates

programmers' in-depth understanding of computer languages, development environments, deployment structures, and testing protocols, which takes time around the clock. Users can visually select and connect reusable components that reflect specific application architecture to develop a desired computerised programme workflow using no-code platforms.

No-code relies on a visual integrated development environment (VIDE), a software suite that combines the essential tools for writing and testing software. They frequently employ a model-driven development technique, in which a software model is used to sketch out how the software system should function before any coding begins. The software can then be tested using model-based testing (MBT) before being deployed.

The Benefits of No-Code AI

There are various advantages of using no-code, in addition to the conventional "easy and convenient." We'll go over a handful of them one by one for you.

- **Maintenance is simple.**

Maintenance used to be somewhat scary because of the complexity required in the pre-no-code era. Even during maintenance, you don't need a coder with no-code.

- **Productivity gains**

Because the speed at which an application can be created has increased and has even become simple, the IT department is no longer inundated with requests. Work that once took months is now completed in hours or days.

- **Changeable**

Traditional coding has the drawback of making it difficult to update a functionality, especially if the code is written in a language you are unfamiliar with. You can quickly alter the functionality with no-code in only a few hours.

The Challenges of No-Code AI

The ability to customise the software on no-code platforms is limited. To put it another way, you'll have to change your business practices to make use of the no-code network's capabilities. You know you'll be heavily reliant on the code because you wrote it. You can, however, take certain risks while dealing with no-code because you don't have complete authority. It can be a great place for security breaches, and if your no-code platform is hacked,

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your software will be as well.

Why No-Code ML will take over the Tech Dome?

Machine learning appears to most firms to be a sophisticated, expensive, and talent-intensive technology. Machine learning platforms can be wonderful efforts without much investment and infrastructure needs, whether you're trying to construct a recommendation engine or a machine learning API to harness your real-time social informatics. We've gone through a few key aspects to enforce the idea that No-Code is the future:

- **Machine Learning Experts in High Demand**

There is a greater demand for specific skills and talents in the technology business. As a result, firms in a variety of industries require IT experts with diverse skill sets in several development categories. [According to Gartner, by 2021, demand for information systems would expand five times faster than IT departments' ability to offer them due to a lack of sufficient workforce growth.](#) No-Code ML would bridge this demand and supply gap.

- **Less expensive**

Allowing non-programmers to manage the addition of fundamental functionalities frees up IT staff to focus on more complex jobs or projects with higher business value. This tradeoff saves the company time and money in the long run. For no-code application development, the complexities of front-end and back-end development are abstracted. A single front-end or back-end developer may be able to build the entire stack. They'll be able to develop faster because they won't have to write any code from scratch.

- **Get more value, operationalize it, and grow it**

Business users, professionals, engineers, and IT all construct apps in agile environments using no-code ML platforms, which boost productivity by reducing development time in defining essential features and components. Managing and maintaining no-code machine learning environments from a single comprehensive dashboard assures and empowers IT professionals to design every app within the boundaries of their organisation.

Top No-Code Platforms

If you need to quickly deploy a machine learning component and integrate it with your existing programme, here is a list of no-code platforms to look into.

- **Google Cloud Auto ML:** It allows you to design your own bespoke machine learning models using Google's machine learning capabilities.
- **BigML:** It offers business analysts and application integration with commoditized machine learning as a service.
- **CreateML:** It accomplishes tasks such as picture recognition, text extraction, and numerical value relationship discovery.
- **DataRobot:** It aids in the preparation, development, deployment, monitoring, and maintenance of enterprise-scale AI applications.

In high-load, data-intensive situations, they are not a substitute for specialised ML model construction. These technologies are cool for what they are: no-code platforms that allow non-technical users or ML newbies to quickly develop modest apps.

Way Forward: The Future Growth of No-Code is Certain!

The purpose of no-code machine learning is to allow businesses to turn data into actionable insights via predictive analytics in minutes rather than weeks or months. Platforms can be built from the ground up with end-to-end scalability in mind, from rapid deployment to plug-and-play integration.

It's no surprise that Google, Facebook, Microsoft, and Amazon have all prioritised AI and machine learning in their innovation agendas.

As a result, more businesses will appreciate the promise of AI by democratising access to machine learning capabilities across any team — regardless of skill level. Let us begin to embrace the future as soon as feasible.

About the Data Science Foundation

The Data Science Foundation is a professional body representing the interests of the Data Science Industry. Its membership consists of suppliers who offer a range of big data analytical and technical services and companies and individuals with an interest in the commercial advantages that can be gained from big data. The organisation aims to raise the profile of this developing industry, to educate people about the benefits of knowledge based decision making and to encourage firms to start using big data techniques.

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