The IchiZen Course Manifesto

Written by Binuri Beneragama

Why I'm teaching Brain Analysis My Way

For as long as I can remember, I have been consistently let down by the traiditonal education system. Spending three weeks learning theory before touching real applications, memorizing concepts for exams instead of building actual skills, getting rewarded for compliance rather than competence (yes I'm talking about all educational institutions). For a significant amount of time, these caused my curiosity for learning to become dormant. When it finally resurfaced, it did so along with a new-found, unexplainable obsession with the field of Brain-Computer Interface.

EEG analysis, however, isn't taught in medical school. I had to teach myself everything from scratch, and during my learning process, I discovered how impatient and easily-bored I am. Online courses, most of which adopt the "theory first, application later" approach that already dominates education, did not work for me for that reason. After months of trial-and-error, I developed a slightly different way to learn – and now teach – complex neuroscience concepts. This manifesto explains why I believe most educational approaches are unsuitable for many, and what I'm doing differently.

The Problem with Traditional Learning

Most courses follow the same tired pattern: weeks of abstract concepts, then maybe some real applications at the end. By the time you get to the interesting stuff, you've either lost motivation or forgotten why you started. This is especially absurd for something like EEG analysis, where the whole point is working with actual brain signals.

As a naturally “lazy”, unmotivated person, I struggled, and still do, with the message of “master the fundamentals first, then maybe you'll do something interesting someday”. The traditional programming courses that spent forever on syntax before letting me build anything meaningful were just a little short of what I would consider dead boring. This personal *"weakness"* of mine, combined with the system that highlights such personal *"weakness"*, significantly suppressed my grit to be productive.

My Learning Philosophy: Show, Use, Explain

While I wouldn't categorically say my way is the right way, when I started teaching myself EEG analysis, I simply flipped the traditional approach. Instead of reading about brain waves for weeks, I loaded real meditation data on day one and watched alpha rhythms appear and disappear as the subject opened and closed their eyes. That single moment of seeing actual brain activity hooked me more than any textbook ever did.

With my own experience combined with reading about similar struggles many other students go through, here's what I thought would work: show students the end result first, let them use simulation tools to create something meaningful, then explain the concepts they need to understand and implement in real-world setting what they just built. Afterall, I believe that most people are motivated by seeing what's possible, not by abstract preparation for eventual possibility. *For example, when you see real brain waves respond to mental states, you immediately understand why filtering matters, why sampling rates exist, and how frequency analysis reveals hidden patterns. The motivation to learn these concepts comes naturally because you've seen them in action.*

What This Course Actually Is

This course teaches practical EEG analysis skills through hands-on work with real EEG data. Students will load actual meditation recordings, sleep studies, and motor imagery experiments from day one. Every Python concept, signal processing technique, and analysis method serves the immediate goal of understanding brain signals better.

I don't teach comprehensive Python programming; I teach Python specifically for neuroscience. I don't cover every signal processing theory; I cover what actually helps you clean and analyze EEG data. I skip academic exercises and focus on building tools you could genuinely use in research or clinical settings.

You learn by doing, not by preparing to eventually do something. Within your first hour, you'll see alpha waves disappear when someone opens their eyes. By the end of the first week, you'll have built a working meditation depth detector. This isn't preparation for learning EEG analysis – this is EEG analysis.

Who This Works For (And Who It Doesn't)

This approach works for people who learn by building, who get motivated by seeing results, and who care more about practical skills than theoretical completeness. If you're the type of person who gets energized by rapid progress and real applications, you'll thrive here.

However, this doesn't work for everyone. If you need to understand every underlying concept before moving forward, you'll find this frustrating. If you prefer slow, methodical coverage of fundamentals, this will feel rushed. If you want comprehensive programming training rather than neuroscience-focused skills, you'll be disappointed.

I cannot please everyone, I'm simply trying to help people who learn like I do (by jumping into real problems and figuring out what they need to know along the way!).

Why I Can Teach This

I taught myself EEG analysis because medical school doesn't cover it. This means I remember exactly what confused me, what concepts clicked immediately, and what traditional explanations completely missed the mark. I know which programming concepts are essential for brain analysis and which ones are academic time-wasters.

More importantly, I'm still learning advanced techniques myself. I'm not a distant expert who's forgotten what it's like to struggle with these concepts. I'm sharing the learning journey in real time, with all the insights and shortcuts I wish someone had given me when I started.

This authentic perspective matters because it keeps the content grounded in actual learning needs rather than theoretical ideals. Every technique I teach, I use myself. Every shortcut I share, I've taken. Every concept I explain, I had to figure out recently enough to remember why it was hard.

The Real Goal

The goal isn't to create EEG analysis experts in a few weeks. The goal is to prove that you can learn complex technical skills much faster than traditional education suggests, and with much more genuine understanding.

When you can load EEG data, remove artifacts, detect sleep stages, and visualize neural activity after completing this course, you'll have evidence that the traditional "fundamentals first" approach was holding you back unnecessarily. You'll know that diving into real problems and learning concepts as you need them actually works better.

Most importantly, you'll have a template for teaching yourself anything. The same principles that make EEG analysis learnable apply to any technical skill. Once you experience how much faster and more engaging learning can be when it's application-driven, you'll never want to go back to compliance-based education.

What I'm Actually Offering

I'm offering a different way to learn complex technical material. Instead of spending weeks preparing to eventually do something interesting, you start doing interesting things immediately and pick up necessary concepts along the way. Instead of theoretical completeness, you get practical competence.

This approach requires more trust and tolerance for initial confusion. You'll use tools before fully understanding them, build systems before mastering every component, and see results before grasping all the underlying theory. But you'll also stay motivated, see constant progress, and develop genuine skills instead of academic knowledge.

If this sounds like how you wish education worked, this course will prove that it actually can work this way. If this sounds chaotic or unsatisfying, traditional courses will serve you better. The choice is yours.

Ready to try a different approach? Let's decode some brain signals.