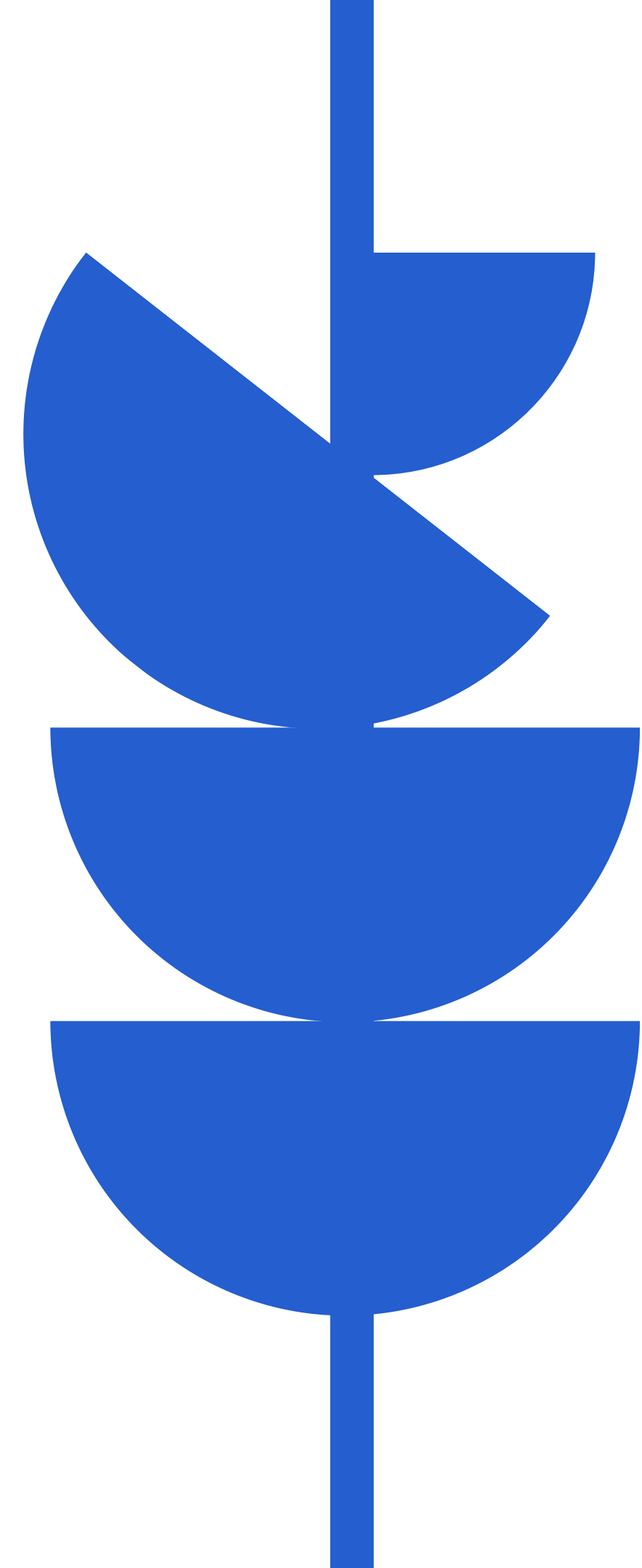


# Compilerm

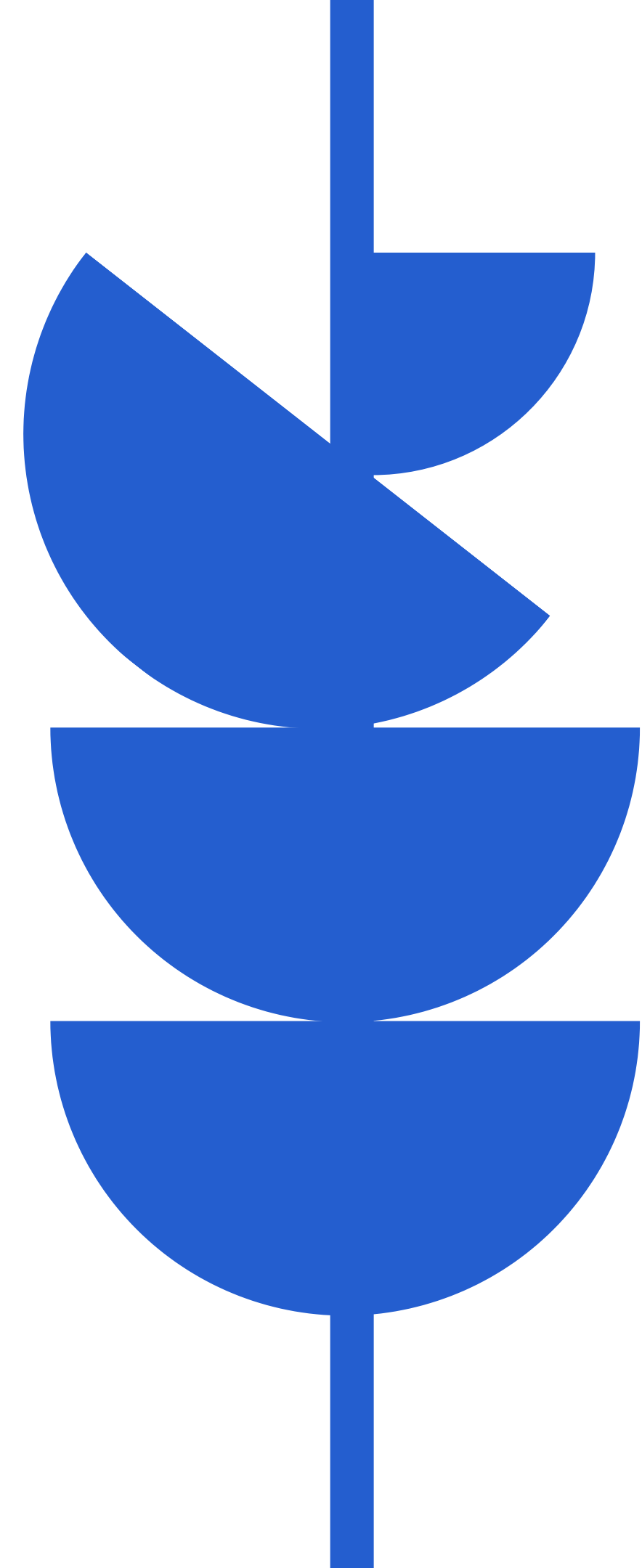
3121164@STUD.SRH-CAMPUS-BERLIN.DE

Chen-Yu Liu

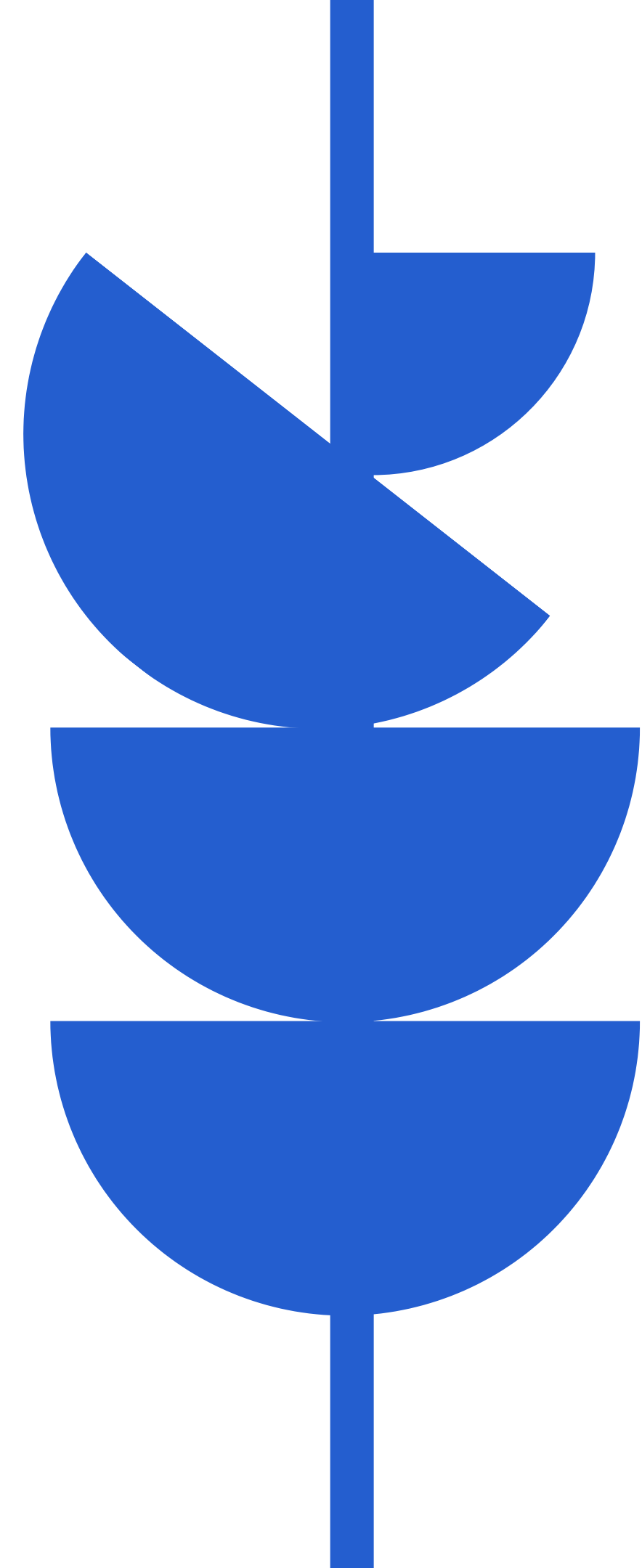
# INTRODUCTION



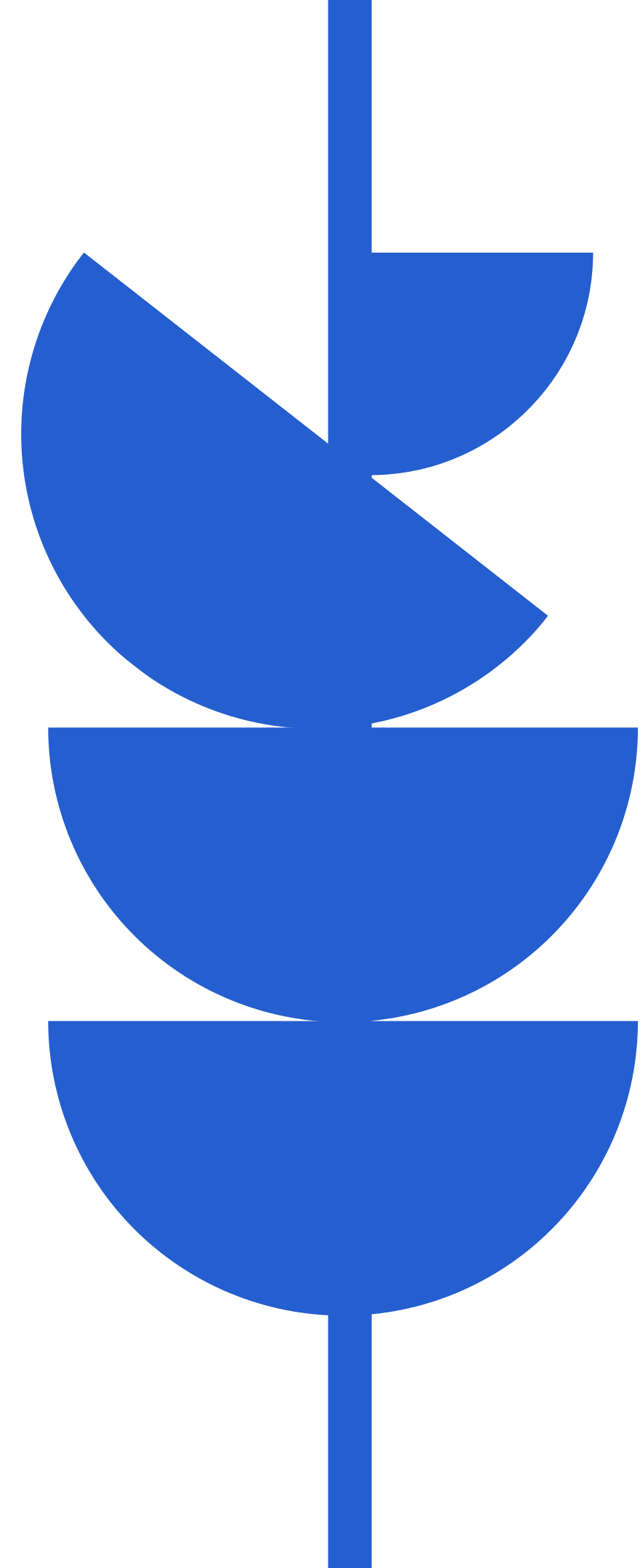
As time progresses, data-driven decision-making has become the standard practice. Data not only enables decision-makers to make more accurate choices but has also largely replaced traditional, experience-based decision-making methods. Although the value of data is universally recognized, not everyone possesses the abilities and mindset of a data scientist or data analyst. It is precisely because of this market pain point that my software development project has chosen machine learning—specifically, the Multi-Armed Bandit (MAB) algorithm—as its core technology.



The MAB algorithm is renowned for its ability to make optimal decisions in uncertain and exploratory environments. The integration of this technology offers a real-time optimization solution for the advertising and marketing sector, significantly enhancing ROI and providing businesses with a substantial competitive edge.



# Market Demand



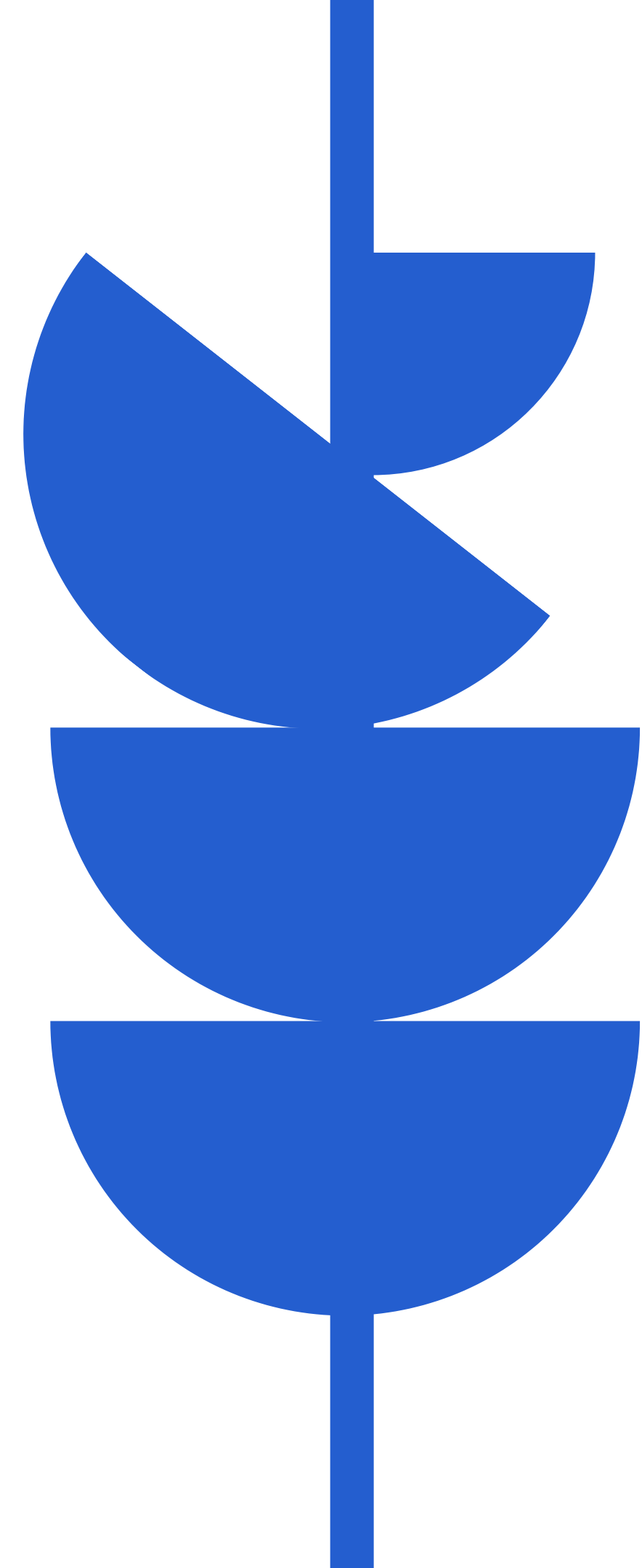
# Current Market Situation

In today's digital advertising domain, many businesses still rely on time-consuming and inefficient traditional market analysis methods and subjective intuition for allocating advertising budgets. Such practices not only result in diminished return on investment and wastage of resources but the challenging threshold of data science also deters marketing professionals.

# Target Market

My target clientele is centered around small to medium-sized enterprises seeking cost-effective, comprehensive, and user-friendly solutions. Our aim is to provide an affordable service that ensures businesses can fully utilize every feature to optimize their advertising investments.

# Business Model and Profit Strategy





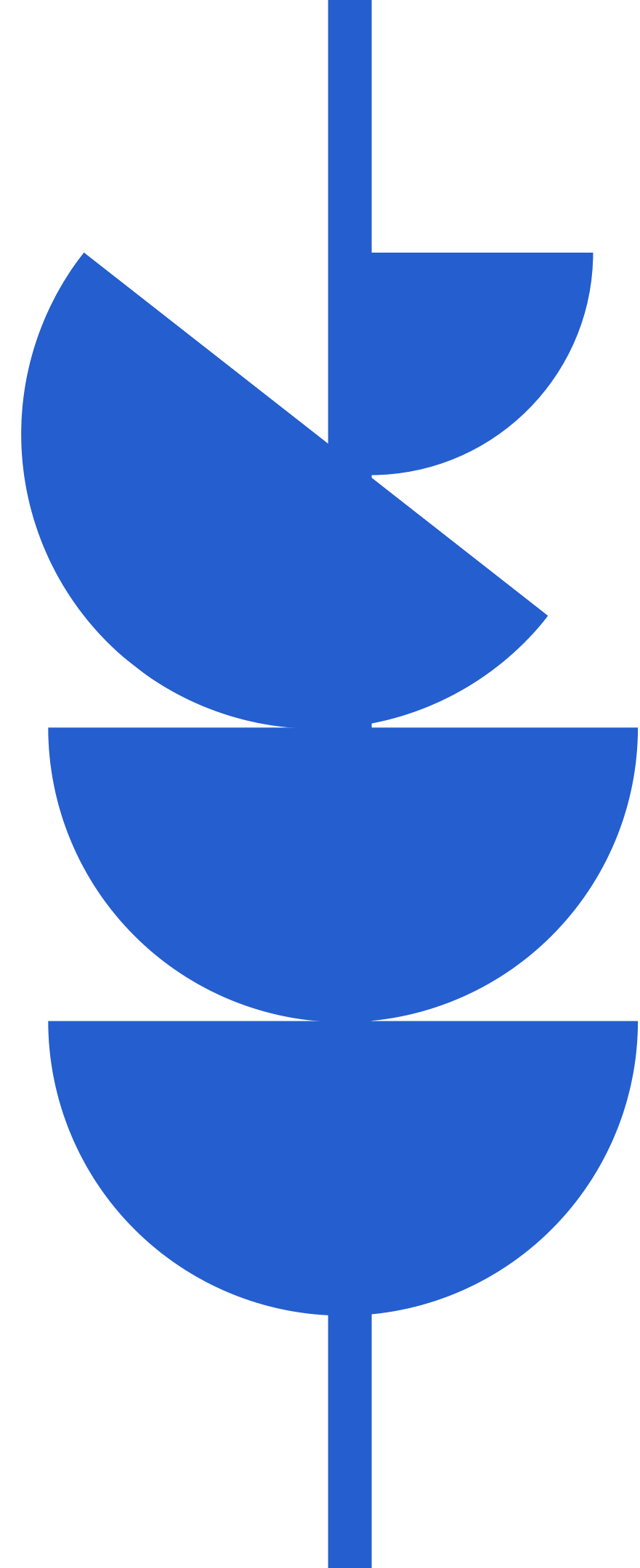
# Revenue Strategy

Our platform offers a multi-tiered revenue model to cater to different user segments. For cost-conscious users, we provide a "freemium + ad" model, allowing free access to basic data tools with the condition of embedded advertising. This approach not only generates advertising revenue but also enhances product accessibility and user base. Subscribing users will enjoy an ad-free environment and gain additional services, such as advanced features and daily automated analytical reports, enabling a deeper understanding of market trends and consumer behavior.

# Market Strategy

Our services are targeted at small and medium-sized enterprises and digital marketing agencies with an urgent need for efficient digital ad operations and keen industry insights. Our market entry strategy is centered around establishing brand presence through targeted online marketing campaigns, professional conferences, and industry networking. Our direct sales team will engage with potential clients, showcasing the robust capabilities of our tool and its specific benefits to their business, thus securing high-value subscriptions.

# Long-Term Planning



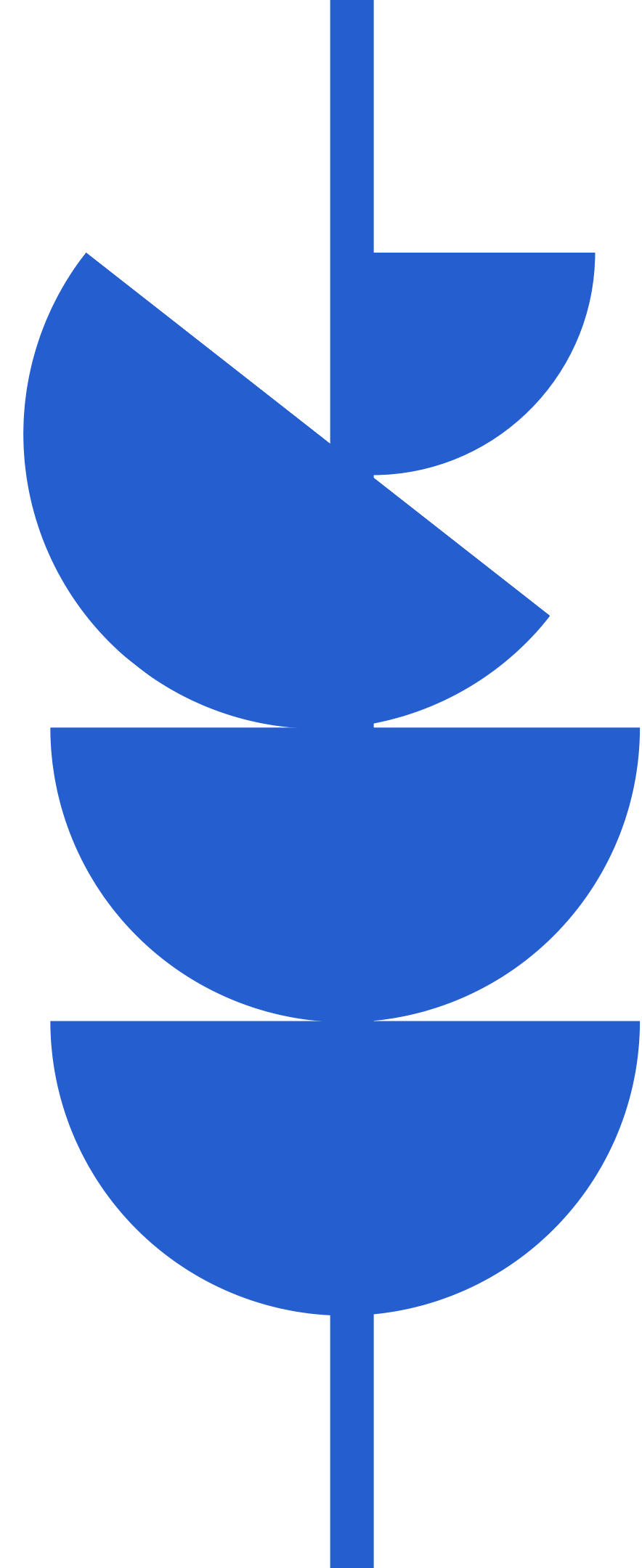
# Milestone Plan

In the initial stage of my startup, my key goal is to develop an offline machine learning model, selecting forward-thinking companies as early adopters for real-world validation. I will focus on obtaining feedback from these early users to enhance digital advertising efficiency. Next, I plan to introduce an easy-to-use GUI for client self-management. Once key functionalities are validated, I aim to expand into a comprehensive ad optimization system, starting with a free version for market entry.

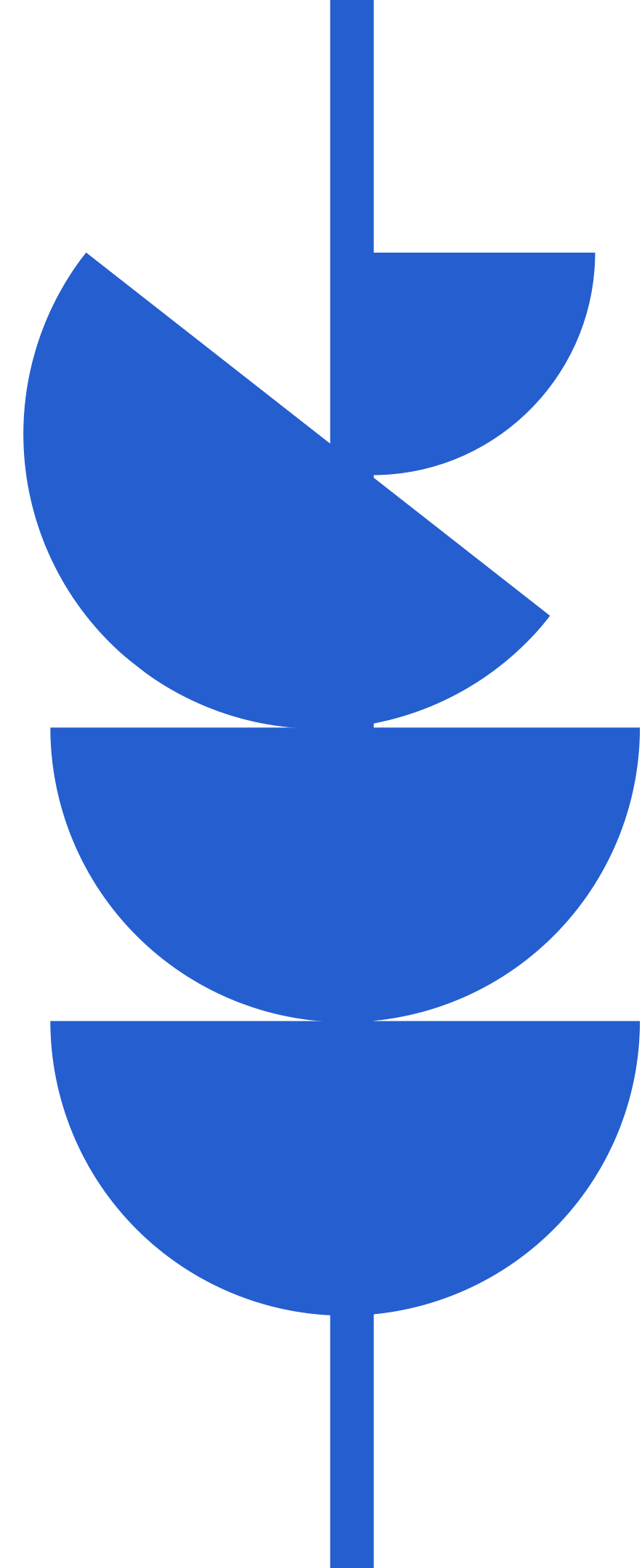
# Expansion Plan

Once the system is operating stably, we will introduce a subscription model and innovative features, which will not only create a steady revenue stream but also offer customers more sophisticated advertising management tools. Our long-term vision involves forming strategic partnerships with industry leaders, jointly developing the market, sharing resources, and harnessing collective industry expertise. Through these initiatives, we are committed to establishing a leading intelligent advertising optimization platform that sets new industry standards.

favourite part



In my software development project, there are two parts that particularly excite me. The first is the analysis phase, where I can delve deeply into what kind of product experience users expect and the benefits that I can deliver to them. This is not only a process of understanding the market but also an opportunity for strategic planning, allowing me to tailor solutions to meet the specific needs of users. The second is the process of writing the machine learning program, which is an incredibly fulfilling journey.



Starting from a rudimentary understanding of machine learning to gradually mastering its mechanisms and finally seeing it produce effective results has greatly enhanced my technical skills and brought me immense satisfaction.

