**Course Overview: Customer Churn Prediction – Real-World ML Experience**

Are you looking to gain hands-on, real-world experience in data science and machine learning? Our **Customer Churn Prediction ML Bootcamp** offers a unique opportunity to work on a live project from start to finish, just like data scientists and engineers do in top tech companies.

This is **not your typical online course** filled with pre-recorded videos and generic assignments. You will be immersed in a real-world scenario where you'll build, train, evaluate, and deploy a machine learning model to predict customer churn. Guided by an expert mentor in **daily live sessions**, you'll work through the same challenges you would face in an actual job.

**Why This Bootcamp Is Different:**

* **Real-World Problem Solving:** Learn how to structure and tackle a data science problem from scratch, just as you'd do on the job.
* **Guided Learning:** You won't be left alone with theory—our experts are here to guide you through each step.
* **Project-Based Approach:** No lectures or long theory sessions—just pure, hands-on coding and real-world application.
* **Industry Standards:** Set up your project using best practices from the tech industry, preparing you to work in data science roles at top organizations.
* **End-to-End Experience:** From data acquisition to model deployment, experience every phase of a machine learning project.

**What You Will Learn:**

1. **Setting Up Your Environment:**
   * Learn how to configure **VSCode** and set up a **Conda environment** tailored for machine learning projects.
2. **Project Structure Like a Pro:**
   * Organize your ML project like a professional, following industry standards used in big tech companies.
3. **Data Acquisition & Understanding:**
   * Dive into real-world data, learn how to acquire, clean, and prepare it for machine learning tasks.
4. **Exploratory Data Analysis (EDA) & Feature Engineering:**
   * Uncover key insights from data and create features that drive model performance.
5. **Model Training and Deployment:**
   * Train, evaluate, and tune a **RandomForest model** to predict customer churn.
   * Deploy your model using **Flask API**, making it accessible for real-time predictions.
6. **Making Predictions:**
   * Use the deployed model to make predictions on new data, just like in production environments.
7. **Model Evaluation and Iteration:**
   * Learn how to properly evaluate your model’s performance and improve it with industry-approved techniques.

**Real-World Benefits:**

* **Hands-On Experience:** This internship simulates the tasks you'll perform as a data scientist in the real world.
* **Problem-Solving Skills:** Learn how to overcome real job challenges with minimal hand-holding.
* **Job-Ready Skills:** By the end of this internship, you’ll have built a portfolio-worthy project that demonstrates your ability to apply machine learning techniques in a professional environment.
* **Collaborative Learning:** You'll have the opportunity to collaborate with fellow aspirants who, like you, are eager to break into the field. Work together to solve real-world problems, share insights, and learn from each other in a supportive environment.
* **Discussion & Networking Platform:** We provide a platform for you to engage in discussions, exchange ideas, and collaborate on projects, helping you build both technical and communication skills essential for the real-world job market
* **Progress Presentations & Feedback:** Present your progress regularly and receive direct feedback from industry experts, ensuring you're on the right track while improving your problem-solving and communication skills

**Bootcamp Structure:**

* **Duration:** 1 month
* **Live Sessions:** 1-hour live mentoring sessions on weekdays 3 days a week
* **Prerequisite:** Python & basic data science or machine learning knowledge
* **Tools & Technologies:** Python, VSCode, Conda, Pandas, Scikit-learn, Flask, REST APIs

By the end of this bootcamp, you’ll not only have built a churn prediction model from scratch, but you’ll also have the confidence to approach real-world data science problems like a pro. This project will be a shining example in your portfolio, showing employers you have the hands-on experience needed for top roles in data science and machine learning.