

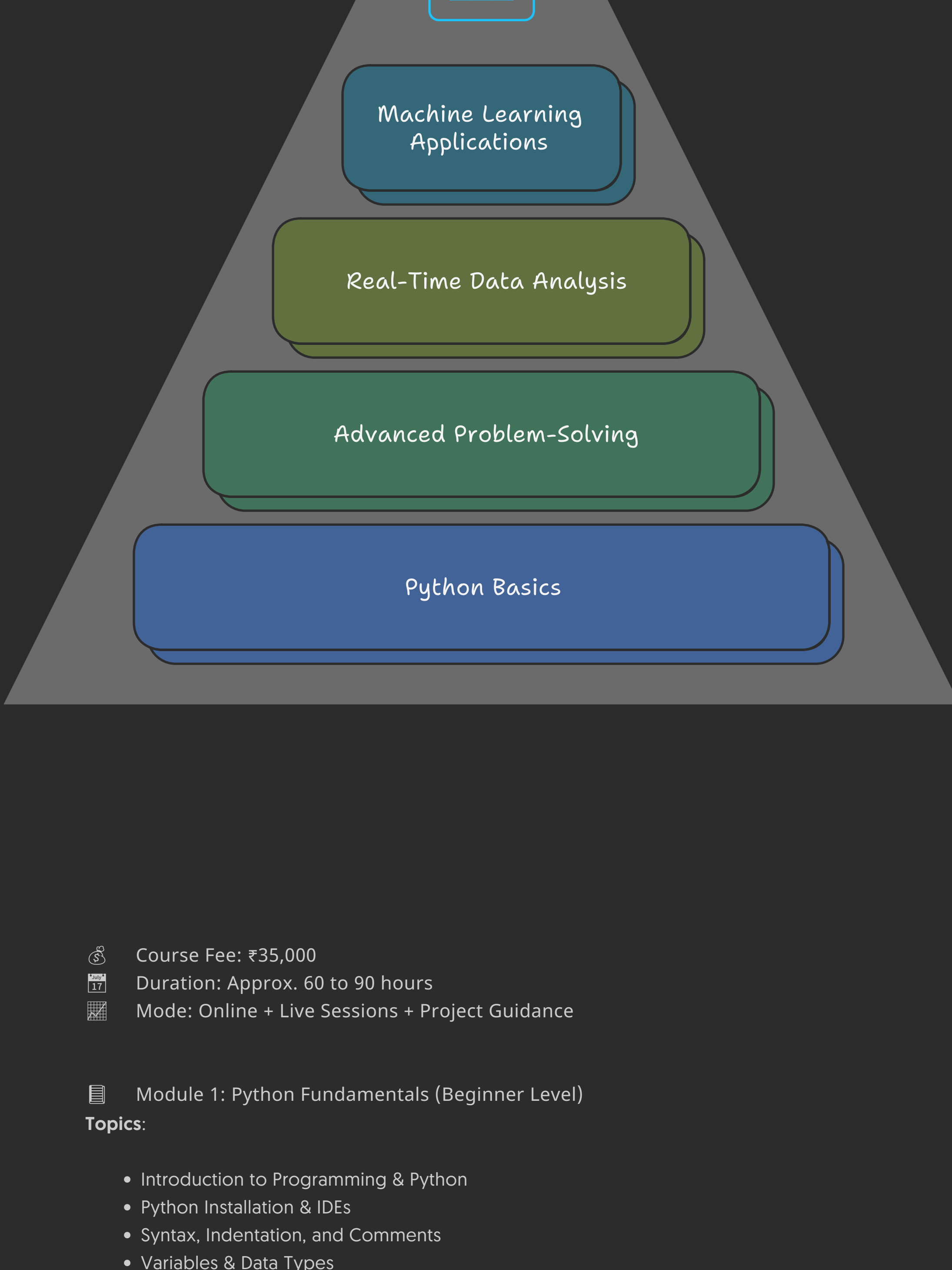
Python Programming: From Beginner to Pro with Data Science & ML

In the modern digital world, Python has become the most in-demand programming language — powering applications from web development to artificial intelligence, automation, and data analytics. Whether you're a complete beginner or someone looking to build a strong career in tech, this comprehensive program is your one-stop solution.

"Python Programming: From Beginner to Pro with Data Science & ML" is a complete hands-on training course designed to take learners from the basics of Python programming to advanced-level problem-solving, real-time data analysis, and intelligent machine learning applications — **along with 25+ real-world projects**.

This course focuses on practical, project-based learning, equipping learners with the confidence to write Python code, analyze data, and build intelligent models used in the real world.

Python Mastery Pyramid



📄 Course Fee: ₹35,000

🕒 Duration: Approx. 60 to 90 hours

📋 Mode: Online + Live Sessions + Project Guidance

📖 Module 1: Python Fundamentals (Beginner Level)

Topics:

- Introduction to Programming & Python
- Python Installation & IDEs
- Syntax, Indentation, and Comments
- Variables & Data Types
- Input/Output Functions
- Operators and Expressions
- Conditional Statements (if, elif, else)
- Loops (for, while)
- Functions and Recursion
- Basic Python Projects [3 Mini Projects]

🔧 Projects:

Calculator App
Number Guessing Game
Quiz App

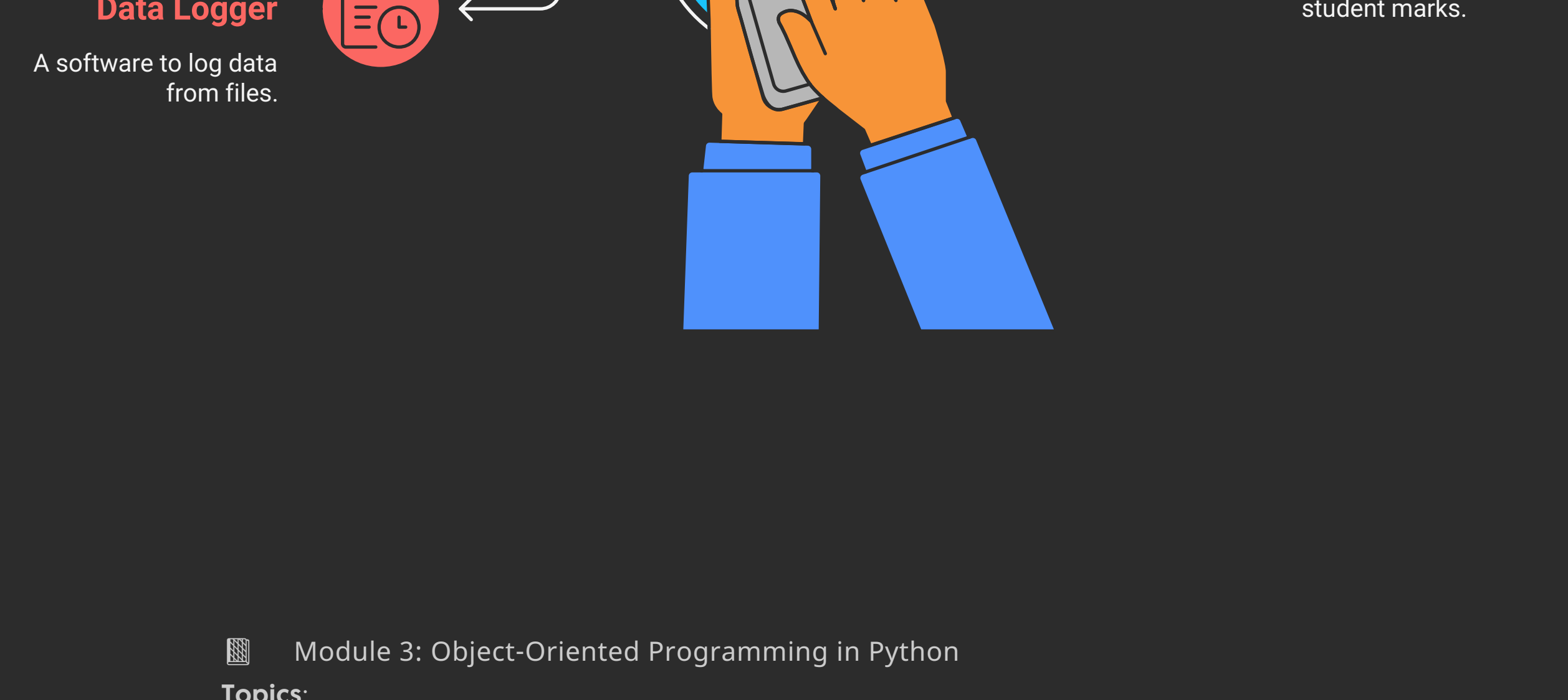


📖 Module 2: Data Structures & File Handling in PythonTopics:

- Lists, Tuples, Sets, Dictionaries
- List Comprehensions
- String Manipulations
- Nested Data Structures
- File Read/Write (Text, CSV, JSON)
- Exception Handling

🔧 Projects:Contact BookStudent Marks RegisterFile-based Data Logger

Software Projects



📖 Module 3: Object-Oriented Programming in Python

Topics:

- Classes and Objects
- Constructors and Destructors
- Inheritance and Polymorphism
- Encapsulation and Abstraction
- Magic Methods

🔧 Projects:Bank Management SystemLibrary Management System

📖 Module 4: Advanced Python ConceptsTopics:

- Lambda, Map, Filter, Reduce
- Iterators and Generators
- Decorators
- Modules & Packages
- Virtual Environments
- Working with APIs

🔧 Projects:Weather App using OpenWeather APICurrency ConverterEmail Automation Tool

Programming Projects



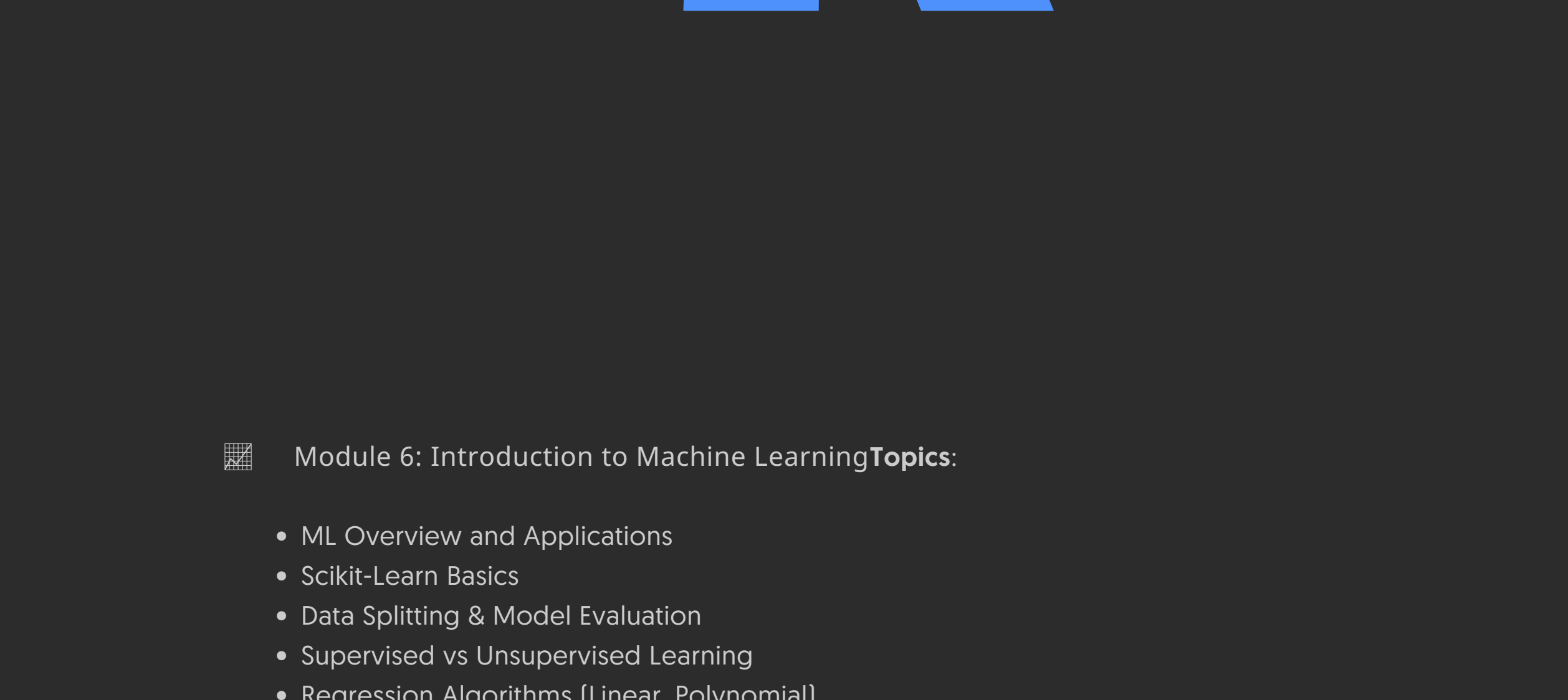
📖 Module 5: Python for Data Analysis

Topics:

- NumPy for Numerical Computing
- Pandas for Data Manipulation
- DataFrames, Series, Merging, GroupBy
- Data Cleaning and Preprocessing
- Data Visualization with Matplotlib & Seaborn

🔧 Projects:COVID Data AnalysisIPL Score VisualizationSales Report Dashboard

Data Science Projects

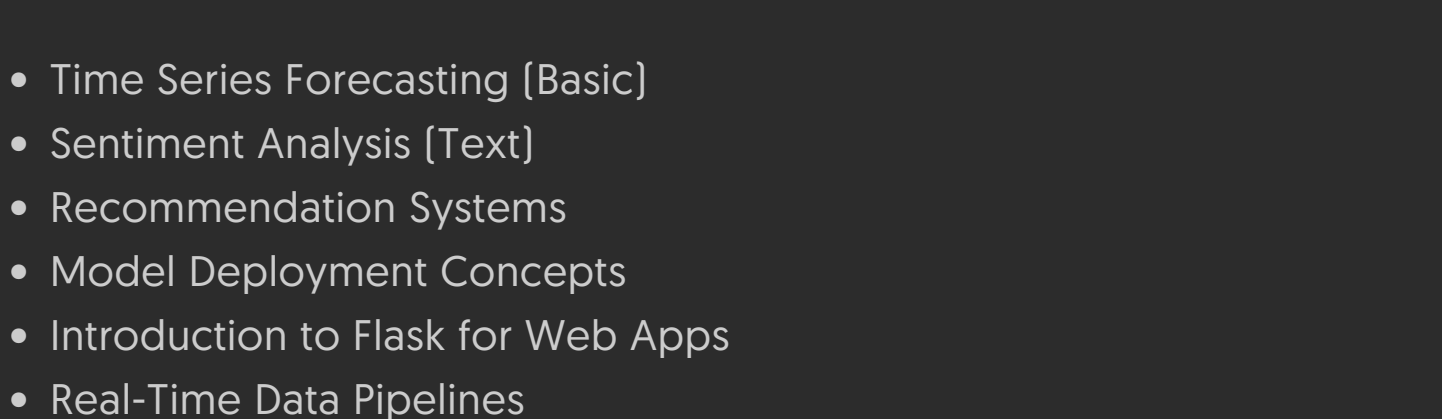


📖 Module 6: Introduction to Machine LearningTopics:

- ML Overview and Applications
- Scikit-Learn Basics
- Data Splitting & Model Evaluation
- Supervised vs Unsupervised Learning
- Regression Algorithms (Linear, Polynomial)
- Classification Algorithms (KNN, Decision Tree, SVM)
- Clustering (K-Means)
- Model Tuning & Cross Validation

🔧 Projects:House Price PredictionSpam Email DetectionIris Flower Classification

Data Science Projects

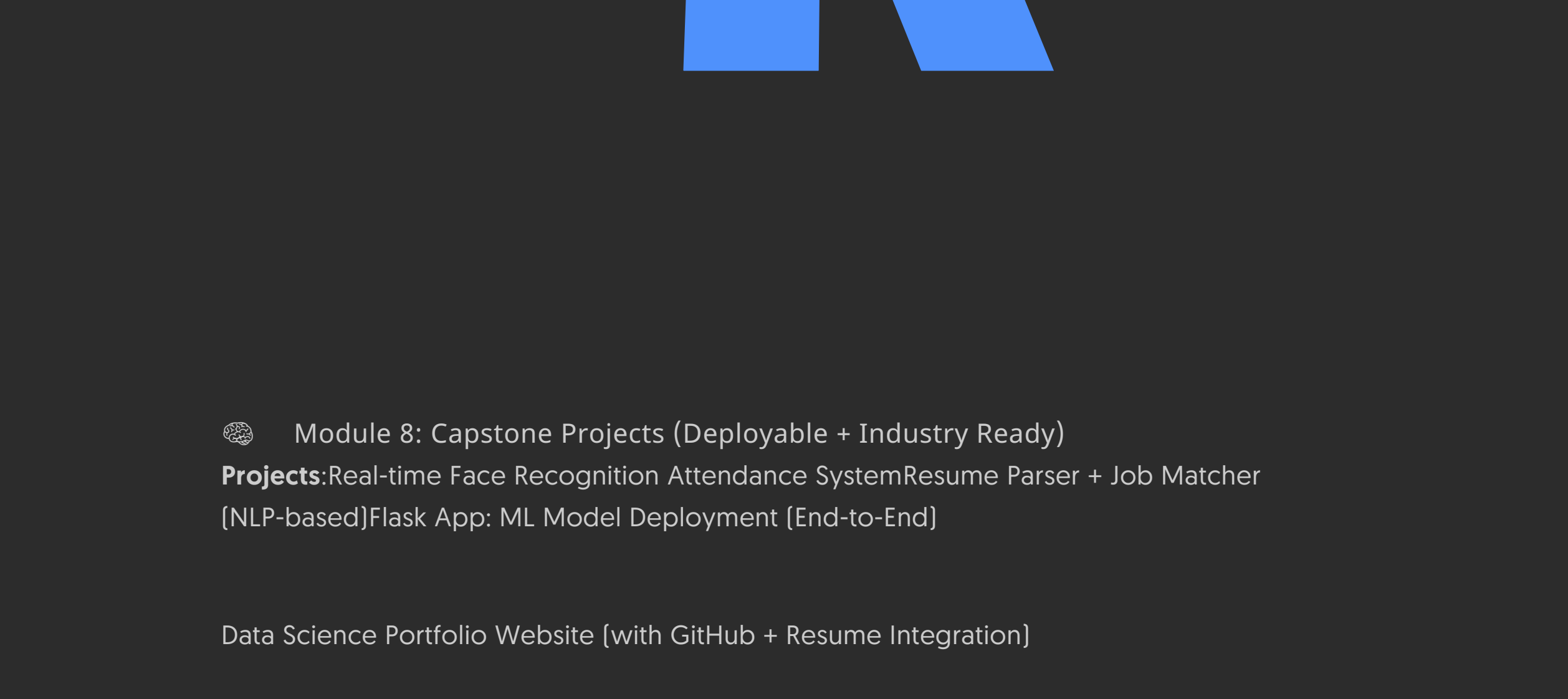


📖 Module 7: Data Science & Real-Time ApplicationsTopics:

- Time Series Forecasting [Basic]
- Sentiment Analysis [Text]
- Recommendation Systems
- Model Deployment Concepts
- Introduction to Flask for Web Apps
- Real-Time Data Pipelines

🔧 Projects:Twitter Sentiment AnalysisNetflix Recommendation SystemStock Price Trend Analyzer

Data Science Projects

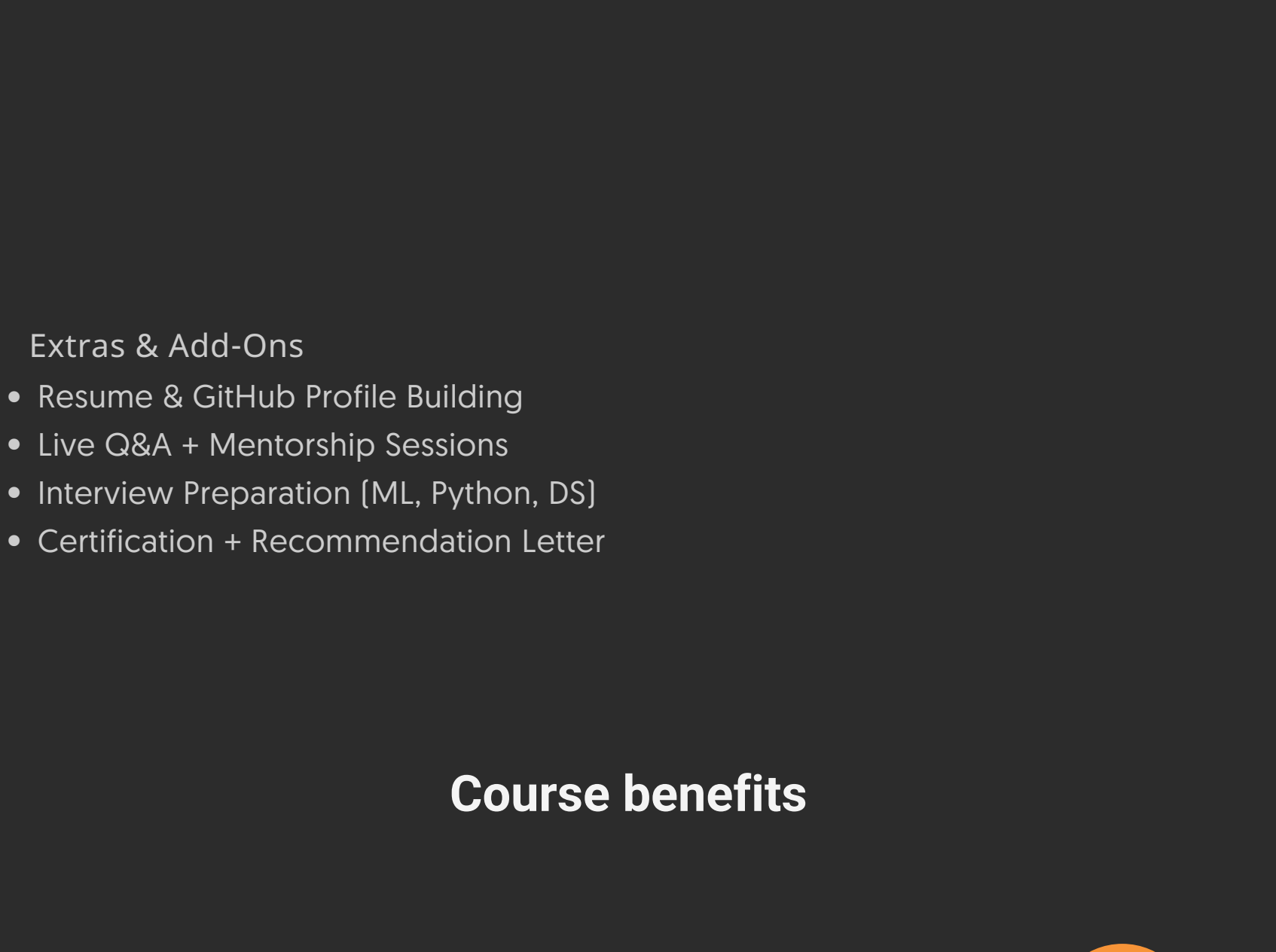


📖 Module 8: Capstone Projects (Deployable + Industry Ready)

Projects:Real-time Face Recognition Attendance SystemResume Parser + Job Matcher [NLP-based]Flask App: ML Model Deployment [End-to-End]

Data Science Portfolio Website [with GitHub + Resume Integration]

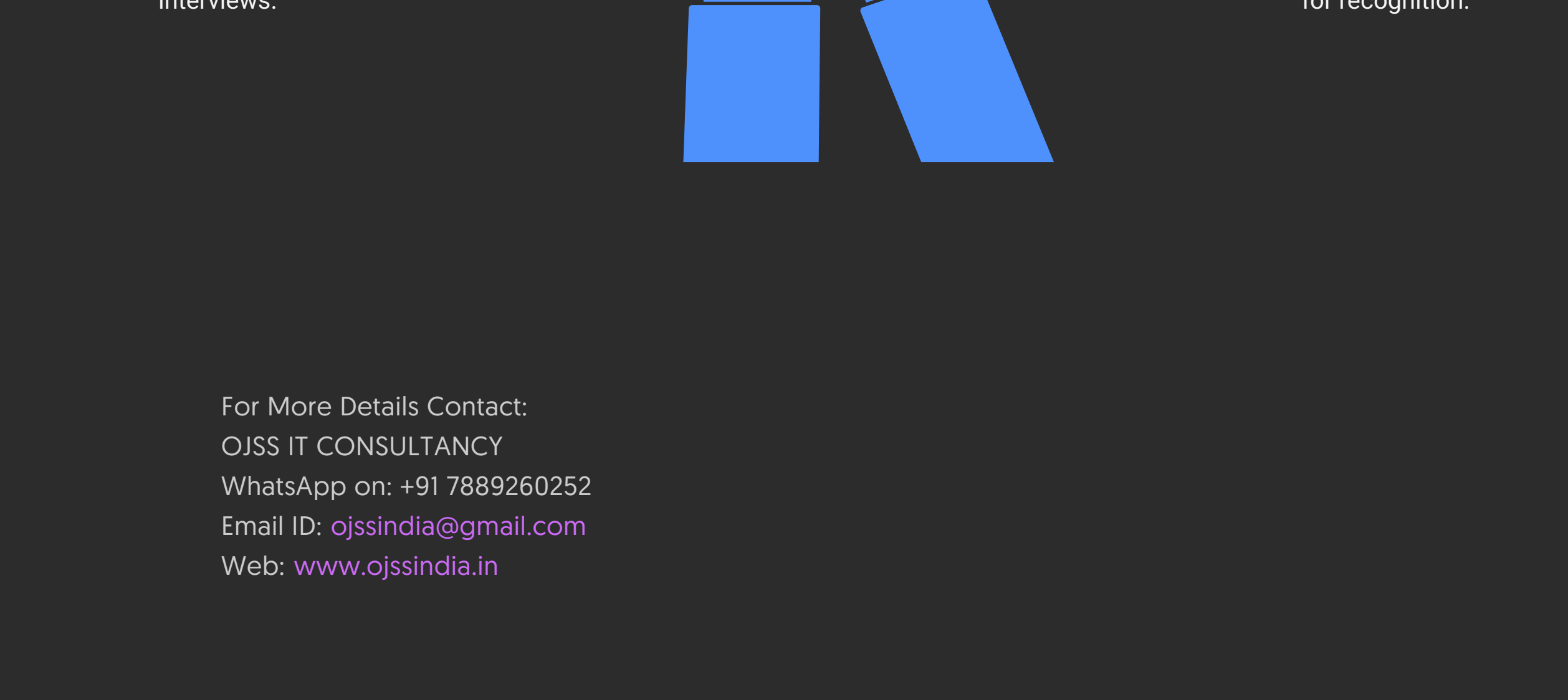
Capstone Projects



💰 Extras & Add-Ons

- Resume & GitHub Profile Building
- Live Q&A + Mentorship Sessions
- Interview Preparation [ML, Python, DS]
- Certification + Recommendation Letter

Course benefits



For More Details Contact:

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