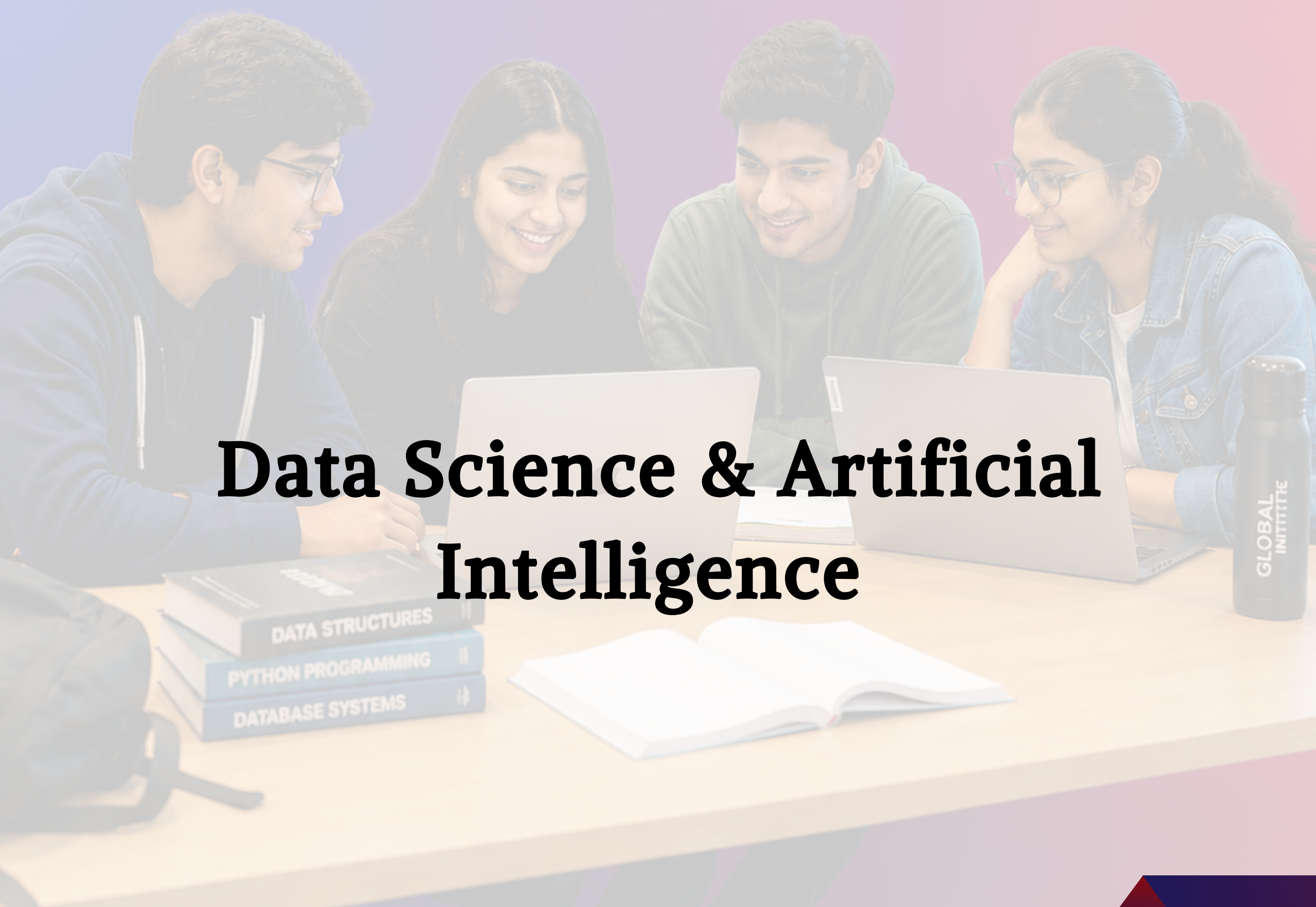




APPLETLOGIC

Data Science & Artificial Intelligence



OUR SERVICES

Placement Grooming Sessions

Our Placement Grooming Program prepares students for successful careers through regular training sessions focused on interview preparation, communication skills, aptitude training, and group discussions. With continuous guidance and practice, students build confidence and stay ready to excel in placement opportunities.

Assesements

Our Assessment Program helps students track their progress through regular evaluations of technical and professional skills. With continuous assessments and timely feedback, students identify areas for improvement, strengthen their knowledge, and ensure consistent growth throughout the course.

Module wiseEvaluations

Our module-wise evaluation system assesses students at the end of each module to measure their understanding and learning progress. This structured approach reinforces key concepts, identifies areas for improvement, and provides timely feedback, helping students build confidence and achieve consistent progress throughout the course.

Experienced Mentors

Our experienced mentors bring strong industry knowledge and practical expertise to guide students throughout their learning journey. With personalized support, real-world insights, and continuous mentoring, they help students build technical skills, solve challenges confidently, and prepare for successful careers in the IT industry.

HR & Mock Interview

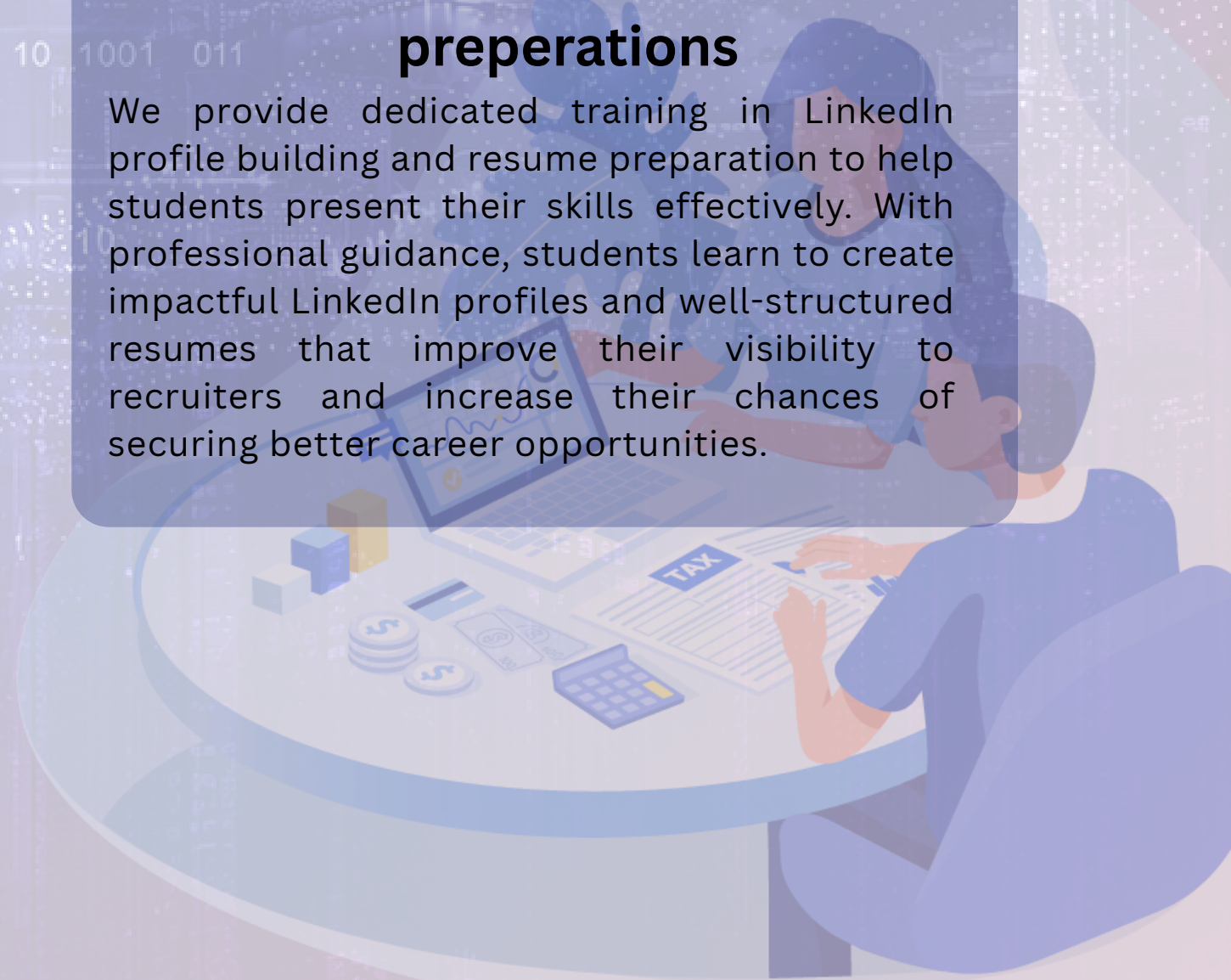
Our HR & Mock Interview sessions prepare students to confidently face recruitment processes. The program includes HR interview practice, technical mock interviews, resume review, communication enhancement, and personalized feedback to improve performance and increase placement success.

Linkedin and Resume preparations

We provide dedicated training in LinkedIn profile building and resume preparation to help students present their skills effectively. With professional guidance, students learn to create impactful LinkedIn profiles and well-structured resumes that improve their visibility to recruiters and increase their chances of securing better career opportunities.

Internship Opportunity

Our Internship Program gives students practical experience by working on real-time projects under expert guidance. It helps them strengthen their technical skills, gain industry exposure, and build the confidence needed for successful career opportunities.



ABOUT THE COURSE

The **AI Integrated Data Science** course is a comprehensive, industry-focused program designed to help learners build expertise in data analysis, machine learning, artificial intelligence, and business intelligence. Starting with the fundamentals of **Excel, SQL, and Python**, the course gradually progresses to data **visualization, machine learning, deep learning, generative AI, MLOps, and data engineering**.

The curriculum combines **hands-on projects, AI-powered tools, and real-world case studies** to provide practical experience in solving business problems using data. Learners will gain proficiency in industry-standard tools such as **Python, Pandas, NumPy, Power BI, Tableau, TensorFlow, Scikit-learn, OpenAI, LangChain, Apache Spark, Databricks, and cloud platforms**.

Through **real client projects, internship opportunities, capstone projects, and placement assistance**, students develop the practical skills and professional portfolio required for careers in **Data Science, Data Analytics, Business Intelligence, Machine Learning, and AI Engineering**.

By the end of the course, learners will be able to collect, clean, analyze, visualize, and model data, build AI-powered applications, deploy machine learning solutions, and make datadriven business decisions with confidence



Course Modules

Module 1

Microsoft Excel for Data Analytics

- Microsoft Office 365 – Excel
- Excel Fundamentals
- Excel for Data Analytics
- Data Visualization with Excel
- Power Query & Power Pivot
- Classification Problems Using Excel
- Information Measures
- Regression Analysis Using Excel

Module 2

SQL & Statistical Foundations

- Relational Databases
- SQL Fundamentals
- Advanced SQL
- Data Integration & ETL
- Mathematical Foundations
- Statistics
- Hypothesis Testing

Module 3

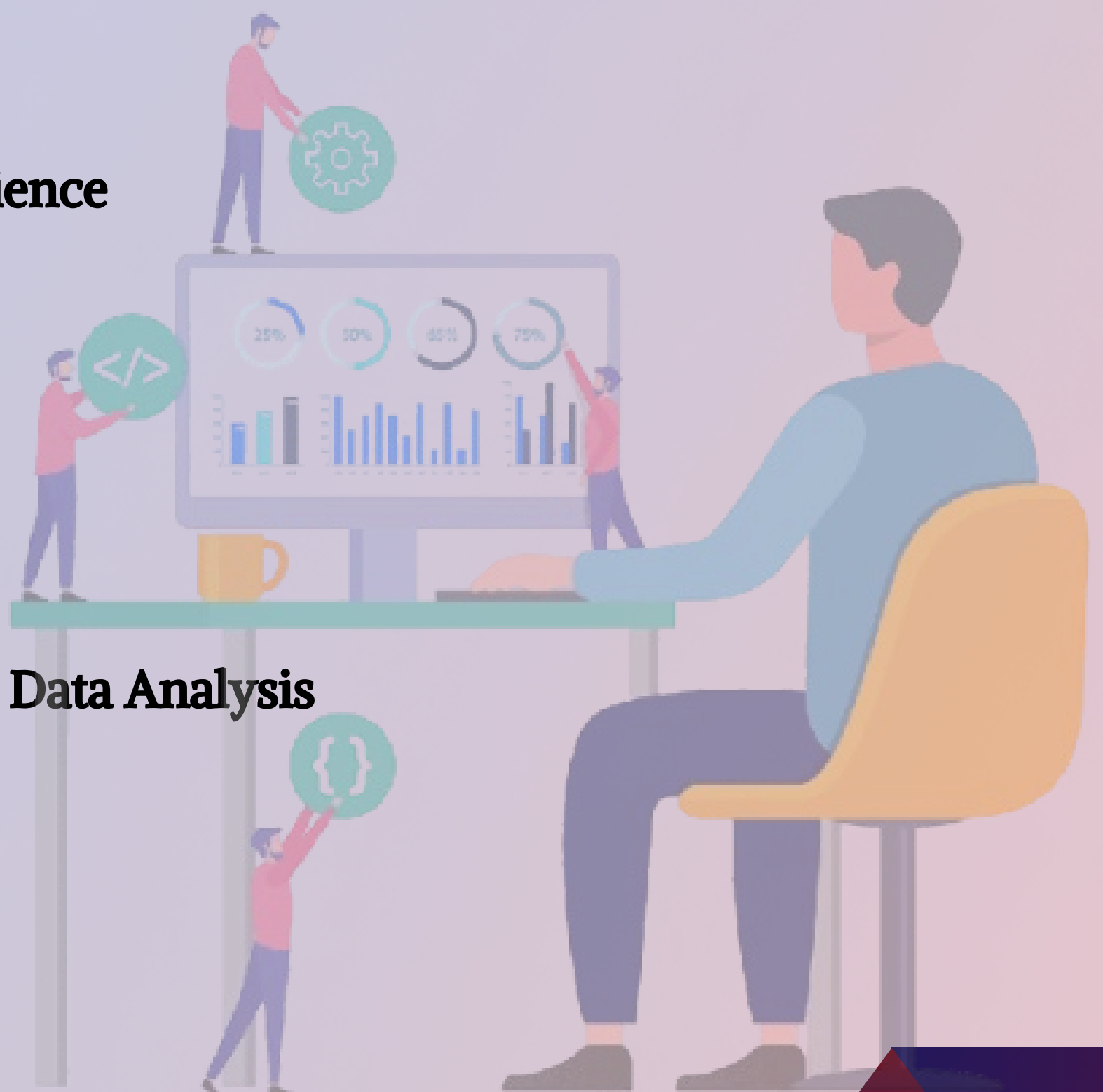
Python Programming for Data Science

- Python Basics
- Python Essentials
- Google Colab
- Kaggle Notebooks
- NumPy
- Pandas

Module 4

Data Preprocessing & Exploratory Data Analysis

- Data Cleaning
- Missing Value Handling
- Feature Engineering
- Exploratory Data Analysis (EDA)
- Data Transformation



Module 5

Data Visualization & Business Intelligence

- Matplotlib
- Seaborn
- Plotly
- Storytelling with Data
- Power BI
- Tableau

Module 6

Machine Learning – Supervised Learning

- Machine Learning Fundamentals
- Regression
- Classification
- Model Evaluation
- Feature Selection

Module 7

Machine Learning – Unsupervised Learning & Time Series

- Clustering
- Dimensionality Reduction
- Recommender Systems
- Time Series Forecasting

Module 8

Natural Language Processing (NLP)

- NLP Fundamentals
- Text Preprocessing
- Feature Engineering
- Sentiment Analysis
- Text Classification
- NLTK
- SpaCy

Module 9

Deep Learning & MLOps

- Artificial Intelligence
- Neural Networks
- Deep Learning
- TensorFlow



- \PyTorch
- MLOps
- MLflow
- Docker
- FastAPI

Module 10

Generative AI & Large Language Models (LLMs)

- Prompt Engineering
- OpenAI APIs
- LangChain
- LlamaIndex
- RAG
- Vector Databases
- Semantic Search
- Fine-Tuning
- AI Safety

Module 11

Data Engineering & Production AI

- Data Warehousing
- Lakehouse Architecture
- Apache Spark
- Databricks
- Kafka
- Kubernetes
- Airflow
- CI/CD
- Model Monitoring

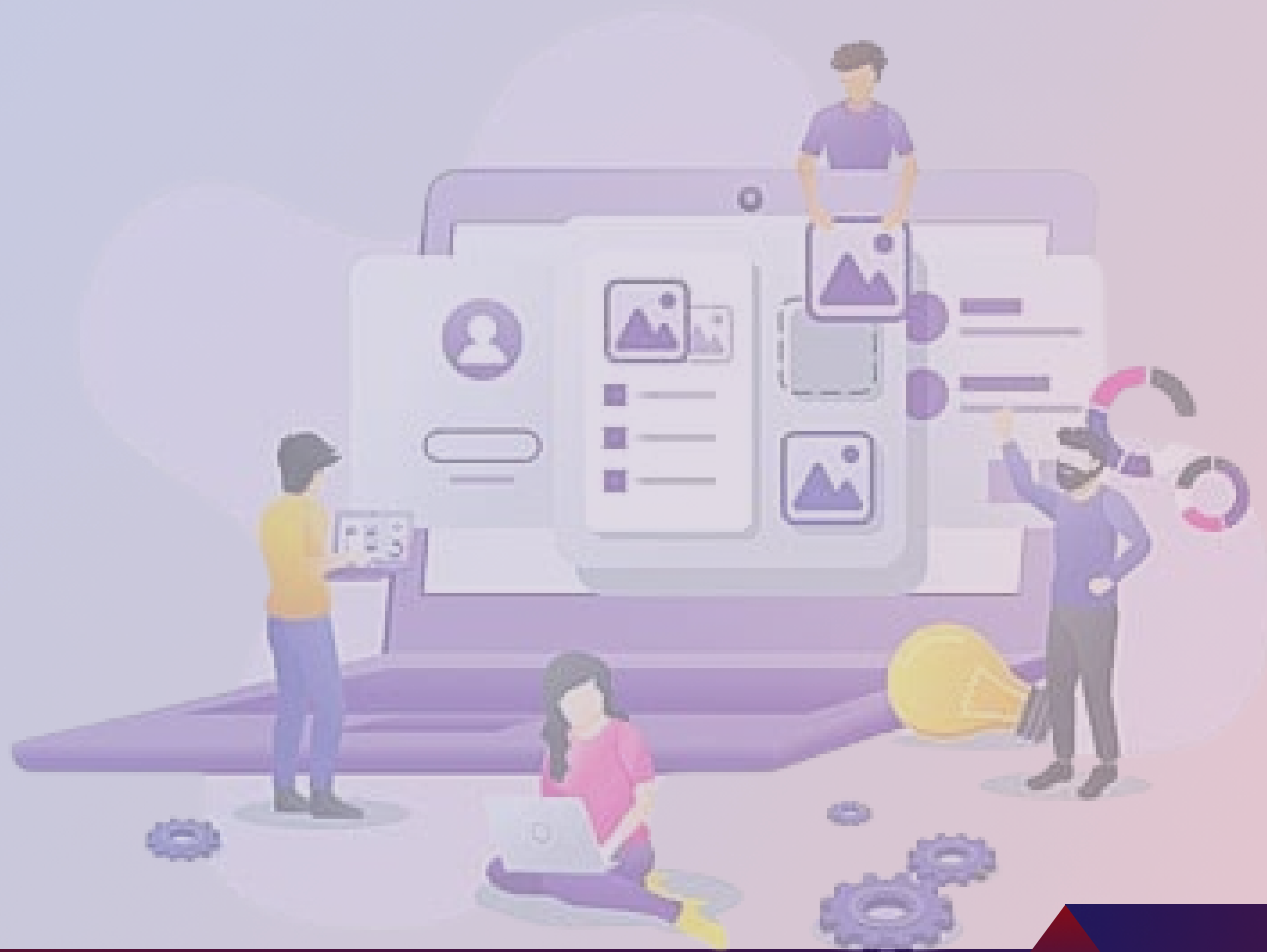
Module 12

Capstone Project & Internship

- End-to-End Data Science Project
- Business Problem Solving
- Data Collection & Cleaning
- Machine Learning Model Development
- Dashboard Creation
- AI Application Deployment



- Model Optimization
- Project Documentation
- GitHub Portfolio Development
- Resume Building
- Mock Interviews
- Real-World Client Project / Internship
- Final Project Presentation



Thank you

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