Launched
Global

DATA SCIENCE PROGRAM

MENTORSHIP

Your first step of transformation begins, here and now.

At Launched global, we provide transformative learning experiences to empower aspiring SaaS professionals. By nurturing a talented community, we close the gap between opportunity and aspiration, promoting leadership, innovation, and quality to shape the SaaS industry's future workforce.

Mission

To cultivate a community of SaaS professionals equipped with the skills to innovate and excel.

Vission

To shape the future workforce through transformative learning experiences

Lesson Plan

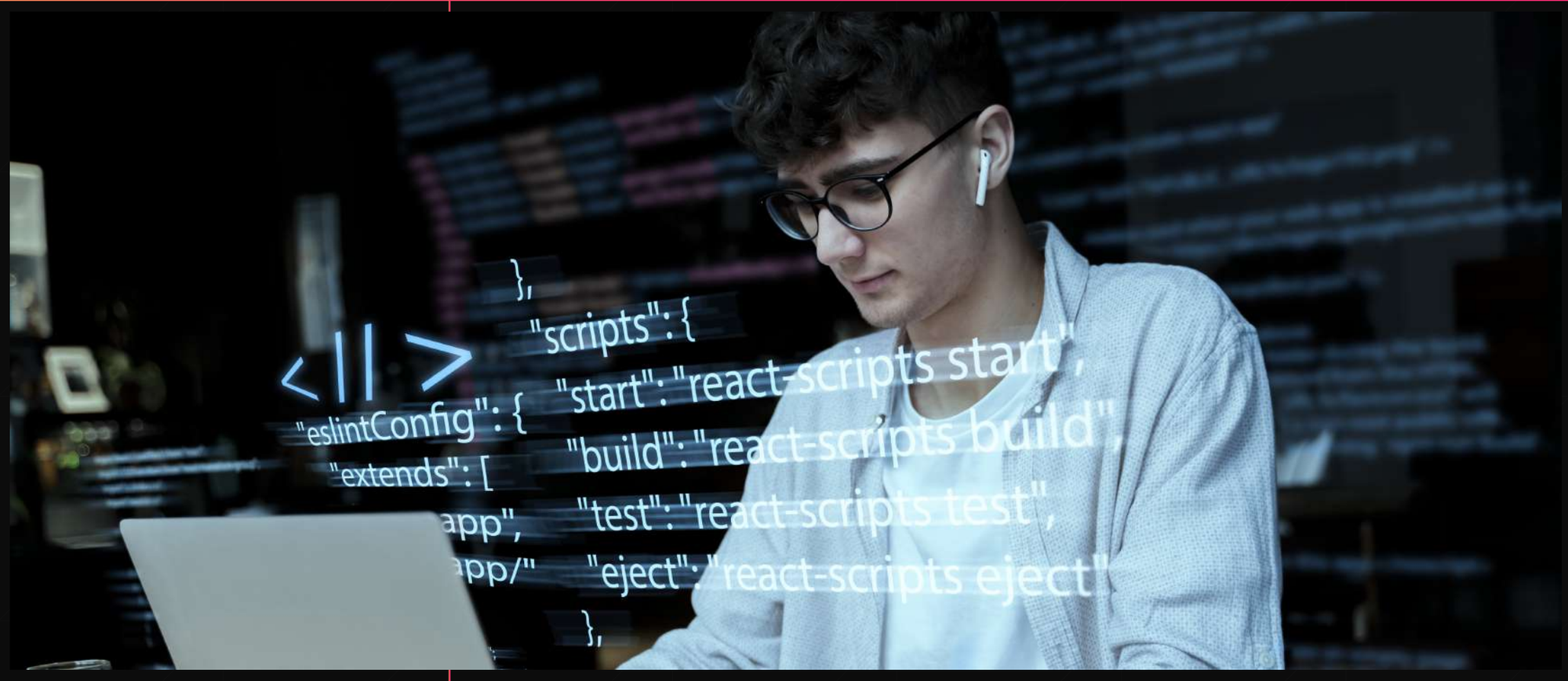
8 Weeks

Duration	Modules
Week 01	• Introduction to Data Science • Overview of data science and its applications • Key concepts: data wrangling, analysis, • visualization, machine learning • Introduction to Python for Data Science • Setting up Python environment (Anaconda, • Jupyter Notebooks) • Basic Python syntax and data structures (lists, dictionaries, tuples, sets) • Advanced Python Concepts • Functions, loops, and conditionals • List comprehensions and lambda functions • Introduction to Pandas • Creating and manipulating data frames • Importing and exporting data (CSV, Excel, SQL) • Data Cleaning with Pandas • Handling missing data, duplicates, and outliers • Data transformation and normalization Live Project 1: Data Cleaning and Preprocessing

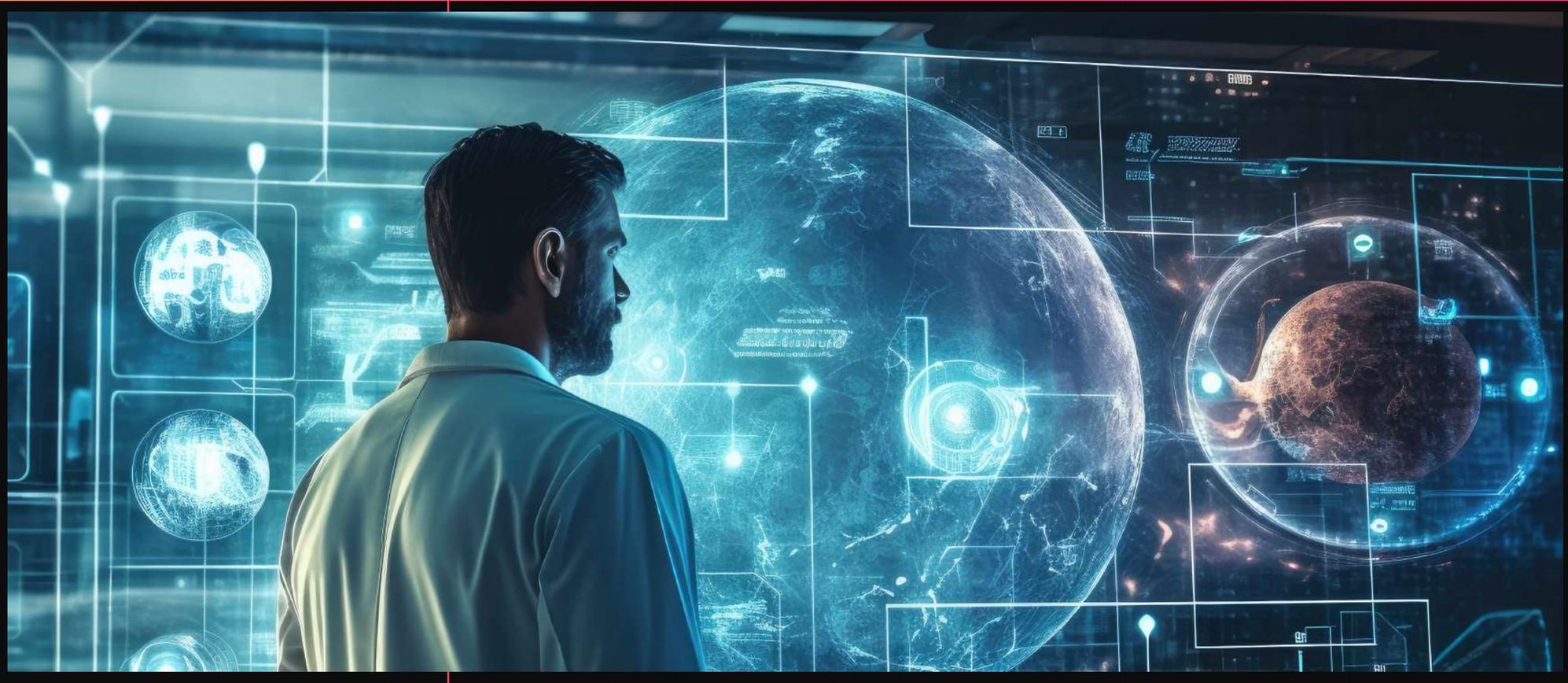
Duration	Modules
Week 02	• Introduction to Data Visualization • Importance of data visualization • Overview of libraries: Matplotlib, • Seaborn • Data Visualization with Matplotlib • Creating basic plots (line, bar, scatter) • Customizing plots (titles, labels, legends) • Advanced Data Visualization with Seaborn • Creating advanced plots (heatmaps, pairplots, • violin plots) • Customizing Seaborn plots • Exploratory Data Analysis (EDA) • Techniques for EDA • Identifying patterns and trends in data • Case Study: EDA on a Real Dataset • Applying EDA techniques to a real-world dataset • Drawing insights and conclusions Live Project 2: Exploratory Data Analysis on a Dataset

Duration	Modules
Week 03	• Introduction to Statistics for Data Science • Descriptive statistics (mean, median, mode, standard deviation) • Probability concepts • Inferential Statistics • Hypothesis testing • Confidence intervals • Introduction to Machine Learning • Overview of machine learning concepts • Types of machine learning: supervised, unsupervised, reinforcement • Supervised Learning Algorithms • Linear regression • Logistic regression • Evaluating Machine Learning Models • Metrics for regression (MSE, RMSE, R-squared) • Metrics for classification (accuracy, precision, recall, F1-score) Live Project 3: Building and Evaluating a Machine Learning Model
	

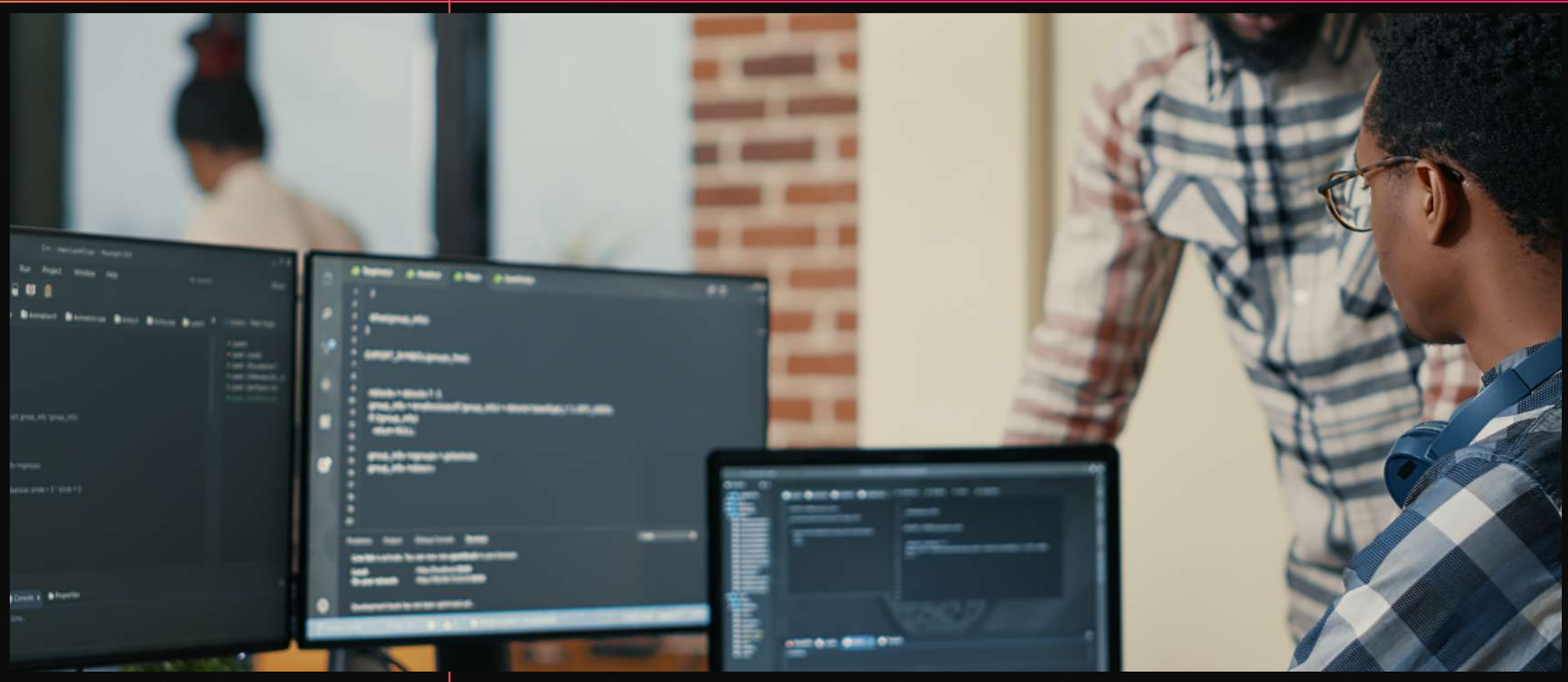
Duration	Modules
Week 04	• Unsupervised Learning Algorithms • K-means clustering • Principal Component Analysis (PCA) • Advanced Supervised Learning Algorithms • Decision trees • Random forests • Introduction to Model Deployment • Saving and loading models • Basics of model deployment • Time Series Analysis • Introduction to time series data • Basic techniques for time series analysis • Case Study: Time Series Forecasting • Applying time series techniques to a • real-world dataset • Building a forecasting mode Live Project 4: Time Series Forecasting



Duration	Modules
Week 05	• Introduction to Natural Language • Processing (NLP) • Basics of NLP • Text preprocessing techniqu • NLP Techniques • Tokenization, stemming, lemmatization • Bag of Words, TF-IDF • Introduction to Deep Learning • Overview of deep learning concepts • Introduction to neural networks • Building Neural Networks with Keras • Creating and training a neural network • Evaluating neural network performance • Case Study: Text Classification • Building a text classification model • Evaluating model performance Live Project 5: Text Classification Mode

Duration	Modules
Week 06	• Introduction to Big Data • Overview of big data technologies • Introduction to Hadoop and Spark • Data Processing with Spark • Introduction to PySpark • Performing data processing tasks with Spark • Introduction to Cloud Computing for Data Science • Overview of cloud platforms (AWS, GCP, Azure) • Basics of using cloud services for data science • Deploying Machine Learning Models on Cloud • Introduction to cloud-based machine • learning services • Deploying a model on AWS SageMaker or • GCP AI Platform • Case Study: Big Data Processing and • Model Deployment • Processing large datasets with Spark • Deploying a machine learning model on clou Live Project 6: Big Data Processing and Cloud Model Deploymen
	

Duration	Modules
Week 07	• Introduction to Generative AI in Data Science • Overview of generative AI concepts • Applications of generative AI in data science • Using Generative AI for Data Augmentation • Techniques for data augmentation • Creating synthetic data with generative models • Prompt Engineering Basics for Data Science • Crafting prompts for AI models • Using generative AI for data analysis • Integrating AI-Generated Content into Data Science Projects • Using AI APIs for data analysis and visualization • Practical examples of AI integration • Outcome-Driven Project with Generative AI • Developing a complete project using generative AI • Showcasing the final project Live Project 7: AI-Powered Data Augmentation

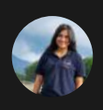


Duration	Modules
Week 08	• Advanced Techniques in Generative AI • Advanced generative models (GANs, VAEs) • Customizing generative models for specific tasks • AI-Driven Data Visualization • Using AI to enhance data visualization • Creating interactive and dynamic visualizations • AI for Automated Data Analysis • Automating data analysis tasks with AI • Using AI to generate insights and reports • No-Code Tools for Data Science • Overview of no-code platforms (e.g., DataRobot, Knime) • Building data science projects without coding • Outcome-Driven Project with No-Code Tools • Developing a complete data science project • using no-code tools • Showcasing the final project Live Project 8: No-Code Data Science Project

Success Stories from those who've launched

Shravan Kumar
RV University

I have done machine learning course. The course provided me so many opportunities to apply what I was learning to real-world scenarios through projects and assignments. The hands-on approach made it so much easier to grasp complex topics and prepared me well for using these skills in my career.

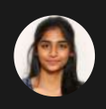


Simran Negi
Presidency University

The training and mentorship I received at Launched Global was a game-changer. My mentor not only guided me through real-world projects but also helped me build confidence in my skills. I'm now ready to tackle challenges in my career!

Saichander Kasthuri
SRM University

This program gave me hands-on experience and direct access to industry experts. I learned more in weeks than I had in months of self-study. It's been an incredible journey!



Vishnu Priya
Alliance University

Thanks to Launched Global, I've gained both technical skills and career insights. The combination of training and mentorship was exactly what I needed to feel prepared and motivated for my professional path.

Our Alumni work at

amazon · Adobe · Google · AUTODESK · Microsoft · Deloitte. · IBM

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