



An initiative by



In Partnership with



Accelerate Sri Lanka: What is it?

In today's rapidly evolving job market, the demand for skilled professionals continues to grow, driven by advancements in technology and the increasing importance of digital literacy.

Recognizing this need, the Accelerate SL project aims to empower individuals by offering a series of comprehensive workshops focused on essential skills that are vital for success in the modern workforce.

The Accelerate SL initiative will cover key topics such as programming languages, data analytics and digitalization; skills that are not only relevant but crucial for career advancement in a competitive environment.

Our workshops will provide participants with hands-on training and practical knowledge, enabling them to adapt to the demands of various industries and enhance their employability.

Through interactive sessions led by industry practitioners, participants will gain valuable insights and experience that will prepare them for the challenges and opportunities of the digital age.

Global Shapers Kandy: Who we are

The Global Shapers Community is a non-profit organization registered in Geneva, Switzerland and housed at the World Economic Forum, with more than 11,000 members spanning over 500 city-based hubs in 152 countries. This community believes in a world in which young people are at the heart of solution-building, policy-making and lasting change. The mission is to inspire, empower and connect young leaders to reach their full potential, shape decision-making processes and drive positive change in their communities and the world.

The Global Shapers Kandy Hub, the second hub in Sri Lanka is driven by more than 30 individuals with diverse talents, fueled by passion and sparked by innovation, who are unified towards the common goal of creating positive change beginning with the historic city of Kandy

Our Partner: PyData Sri Lanka

PyData is a global forum for users of python, fostering collaboration and innovation in data management, analytics, and visualization using tools like (but not limited to) Python, Julia, and R. It promotes community-driven learning, sharing best practices, and exploring emerging technologies.

We aim to be an accessible, community-driven conference, with novice to advanced level presentations. PyData tutorials and talks bring attendees the latest project features along with cutting-edge use cases.

PyData Sri Lanka, a local chapter of PyData, bridges the gap between academia and industry through workshops and initiatives like UniConnect, which has trained over 1,000 participants in Python programming and data analytics, empowering undergraduates across Sri Lanka.



<https://pydata.org/ext>



<https://www.linkedin.com/company/pydata-sri-lanka/posts/?feedView=allt>



<https://www.youtube.com/@PydataSriLanka>

Programme Features



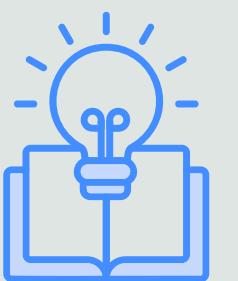
Flexible Online Format:

Participate from anywhere with sessions designed to fit your schedule, particularly on weekends.



Affordable Access:

Reasonably priced to maximize inclusivity without compromising quality.



Comprehensive Curriculum:

Covering high-demand topics such as programming , data analytics, and tools for digital optimization

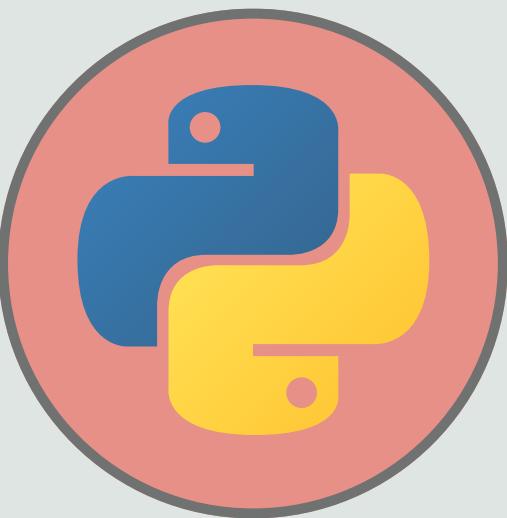


Expert Panel:

Sessions conducted by industry professionals and experts from the Global Shapers community & beyond.

Workshop

Data Analytics



**Python
Programming**



**Version Control
with Git**



**Data Visualization
in Power BI**



**Mastering
LinkedIn
FREE BONUS
SESSION!**



Weekends
23 February,
2025 Onwards



**6- 8 PM
SLST**

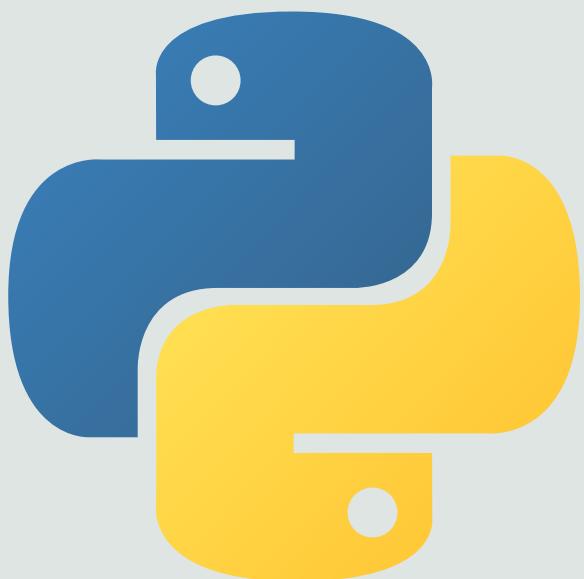
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**Online
Sessions**



**Special Discount
Join ALL at
2500 LKR**

Data Analytics: Course Content



**Python
Programming**

Session 1 : Introduction to Python

- Installing Python and Setting up IDEs: Learn how to install Python and set up popular IDEs like PyCharm, Jupyter Notebook, and VS Code for an optimal coding environment.
- Variables, Constants, and Basic Data Types: Explore examples of defining variables (`x = 10`) and constants, understanding data types like integers, floats, strings, and booleans.
- Operators and Control Flow: Practice arithmetic, logical, and comparison operators (`a + b`, `a > b`). Understand conditional statements (`if-else`) and loops (`for` and `while`) to control program flow.
- Basic Data Structures: Introduction to lists, tuples, sets, and dictionaries and learn list comprehensions.

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Sri Lanka

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**Python
Programming**

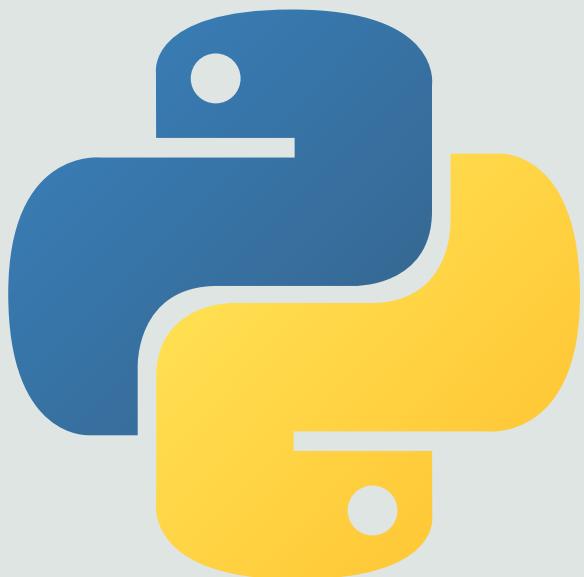
Session 2: Advanced Concepts in Python

- Python Functions: Learn to write reusable Python functions and explore lambda functions
 - Example: Create a function that checks if a number is prime.
 - Example: Use a lambda function to sort a list of dictionaries by a specific key.
- Exception Handling: Learn to handle errors gracefully using try-except blocks.
 - Example: Build a calculator program that catches invalid inputs like dividing by zero.

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**Python
Programming**

Session 3: Data Analysis Using Pandas

- Python Functions: Learn to write reusable Python functions and explore lambda functions
 - Example: Create a function that checks if a number is prime.
 - Example: Use a lambda function to sort a list of dictionaries by a specific key.
- Exception Handling: Learn to handle errors gracefully using try-except blocks.

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**Python
Programming**

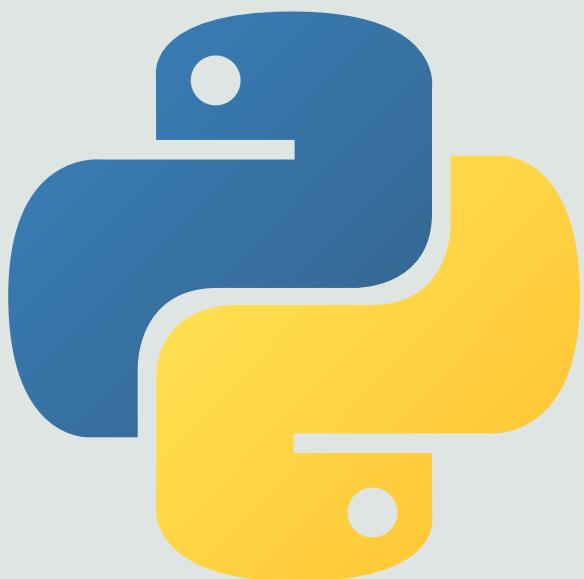
Session 4: Data Analysis Using Pandas

- Understanding data frames
- Introduction to Pandas: Understand the basics of Series and DataFrames. Learn how to import and manipulate datasets using Pandas.
 - Example: Load a CSV file of sales data and filter rows where sales exceed a specific value.
- Data Reshaping

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**Python
Programming**

Session 5: Advance Analytics and Time Series Analytics

- Perform group-by operations, pivot tables, and aggregations.
 - Example: Analyze a dataset to calculate monthly sales averages by region.
- Multi-dimensional analysis
- Multi Indexing
- Aggregating the Time Series for a Rolling Window Using a Metric
- Lagging in Time Series
 - Using the percent change function to calculate the above outputs directly
- Resampling the Time Series for a Specific Frequency

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**Python
Programming**

Session 6: Data Visualization with Python

- Introduction to Visualization with Matplotlib and Seaborn: Create static visualizations such as line charts, bar plots, and scatter plots. Learn to customize plots for better storytelling.
 - Example: Visualize the trend of sales data over a year with a line chart.
- Overview of Plotly: Explore interactive plotting capabilities to build dynamic charts.
 - Example: Create an interactive scatter plot to display customer segmentation.

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**Python
Programming**

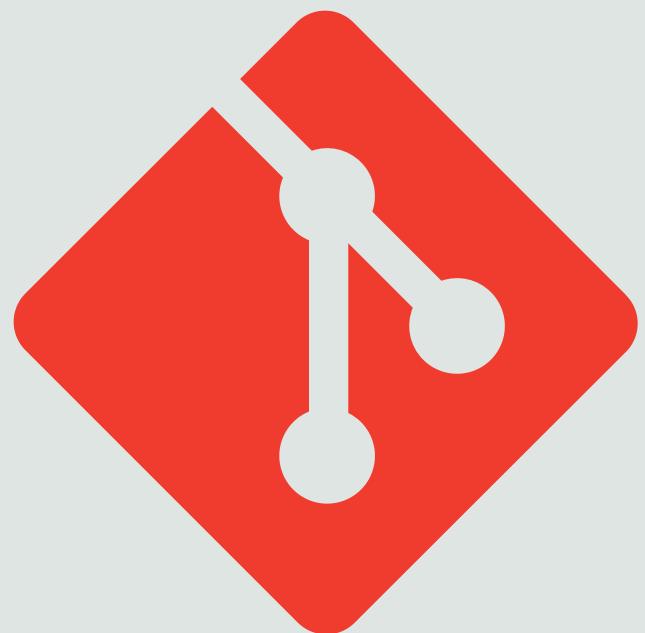
Session 7 : Basics of Dash for Interactive Visualizations:

- Build web-based dashboards with Dash to present data interactively.
 - Example: Develop a sales dashboard with filters for regions and timeframes.

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Version Control with Git

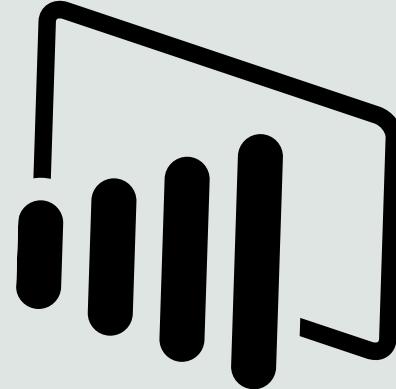
Session 8: Introduction to version control through Github

- Introduction to version control
- Git setup
- Terminologies
- Concepts - commit, push , pull, revert
- Git workflow
- Branches and revisions

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**Data Visualization
with PowerBI**

Session 9: Power BI Fundamentals (2 hours)

- Introduction to Power BI:
- Overview of Power BI: What it is and why it's important | Key components: Power BI Desktop, Power BI Service, and Power BI Mobile | Career opportunities and industry use cases | Getting Started with Power BI:
- Installing Power BI Desktop.
- Exploring the interface: Basic tools and navigation.
- Key concepts: Data sources, datasets, reports, and dashboards.
- Power BI capacities and limitations.

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Data Visualization with PowerBI

Session 10: Data Preparation and Modeling (2 hours)

- Data Preparation:
- Data Importing: Connecting to various data sources (Excel, databases, web services).
- Data Cleaning: Using Power Query for data transformation.
- Data Structuring: Managing relationships and creating hierarchies.
- Data Modeling:
 - Overview of tables, relationships, and star schema modeling.
 - Introduction to DAX (Data Analysis Expressions): Creating calculated columns and measures.
 - Key DAX functions for analytics: KPIs, running totals, and year-over-year analysis.

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Data Visualization with PowerBI

Session 11: Visualizations, Storytelling, and Sharing (2 hours)

- Visualizations and Storytelling:
- Choosing the right visual: Charts, tables, and cards.
- Customizing visuals for effective storytelling.
- Incorporating slicers, filters, and interactivity.
- Creating dashboards.
- Report Publishing and Sharing:
- Publishing reports to the Power BI Service.
- Managing permissions and access.
- Exploring Power BI Mobile: On-the-go analytics.
- Q&A and Hands-On Practice:
- Practical exercises covering the entire workflow.
- Addressing participant queries and clarifications.

Our Speakers



Sanjeth Srikathirkamanathan – Advanced Analytics with Pandas

A data professional with expertise in data engineering, data analytics, and data harvesting, Sanjeth has 6+ years of experience in Python programming and PySpark, delivering advanced solutions for global fintech clients. A founding member and Chief Chair of PyData Sri Lanka, he also lectures in Data Science at NIBM. Additionally, Sanjeth holds a Bachelor's degree in Industrial Statistics and Mathematical Finance from the University of Colombo.



Devminda Abeynayake – Introduction to Python

Devminda has 3+ years of Python development experience, serving global fintech clients. A co-founder of PyData Sri Lanka and lead contributor to its YouTube channel, he also supervises research at the University of Colombo. Devminda holds a Bachelor's in Industrial Statistics and a degree in International Business and Finance from the University of the West of Scotland.

<https://www.linkedin.com/in/devminda-abeynayake-79ba66196/>

Swipe for more>>>

Our Speakers

Akalanka Jayalath – GitHub Essentials



Akalanka is a Senior DevOps Engineer with 5+ years of expertise in DevOps, cybersecurity, and cloud infrastructure for global clients. He is a visiting lecturer at the University of Kelaniya and certified as an ISO 27001 Lead Auditor by Bureau Veritas. Akalanka graduated with a Bachelor's in Management and IT from the University of Kelaniya.

<https://www.linkedin.com/in/akalanka-jayalath/>

Manujaya Thennakon – Power BI



Manujaya, a Data and AI Consultant, specializes in Power BI and business visualization tools with 2+ years of experience. As a facilitator for Power BI training, he leverages his expertise to address complex challenges across industries. Manujaya graduated from the Faculty of Science, University of Colombo, and is passionate about data evangelism.

<https://www.linkedin.com/in/manujaya-thennakon-7a5678198/>

Our Speakers



Uvini Ranaweera – Visualization with Python

Uvini is a lecturer in Data Science at the Department of Decision Sciences, University of Moratuwa. With prior experience as an Analyst at Acuity Knowledge Partners, she has contributed to significant data visualization and analytics projects. She actively fosters industry-academia collaboration to enhance knowledge sharing.

<https://www.linkedin.com/in/uvini-ranaweera-/>



Samujitha Senaratne – Visualization with Python

Samujitha is an Industrial Statistics graduate from the University of Colombo with a strong foundation in Data Science and Python development. He has industry experience at Acuity Knowledge Partners and specializes in data-driven decision-making solutions. His background bridges academia and applied research in data science and AI.

<https://www.linkedin.com/in/samujitha-senaratne-a1387b25a/>

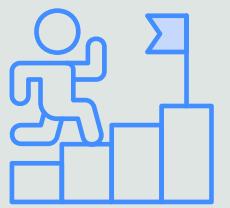


Sachee Thenuwara - PowerBI

An Associate BI Consultant at Intellint, specializing in Microsoft Power Platform and Microsoft Fabric to optimize BI solutions. With a background as a Mechatronics Engineer in the Textile & Clothing industry, Sachee combines technical expertise and analytical skills to drive digital transformation. Graduated from two state universities in Sri Lanka, contributing to innovative data architecture and analytics for strategic decision-making.

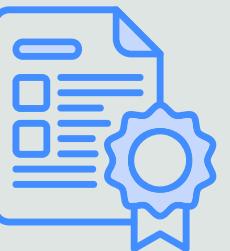
<https://www.linkedin.com/in/sacheet/>

Benefits



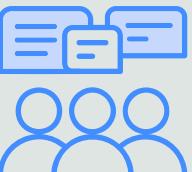
Enhance Your Skills:

Gain skills that can directly improve employability and earning potential.



Shareable Participation Certificate

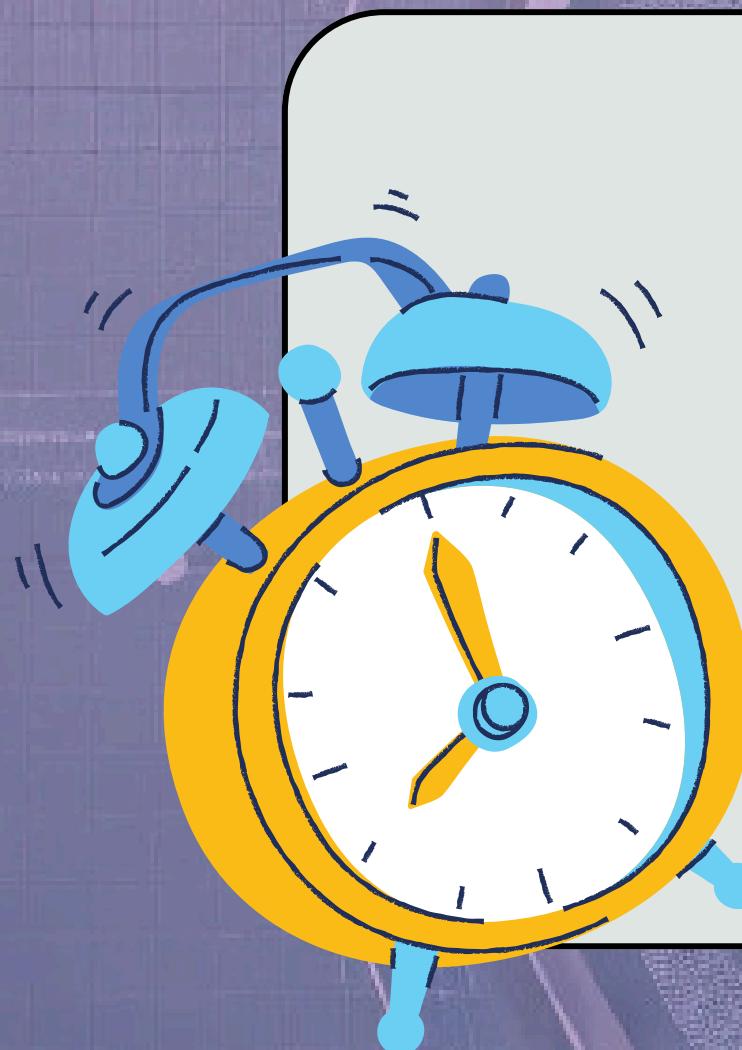
Participants will receive a **shareable certificate** upon completion of the Data Analytics Workshop, recognizing your skills and expertise gained through the session.



Join the Community:

Join hands with a community of like-minded peers & mentors who will inspire and support your career growth. **Automatic subscription to future workshops** plus the ability to grow your network.

Time Line



- **20th January, 2025 - Registration Opening**
- **15th February, 2025 - Registration Closing**
- **23rd February, 2025 - Workshops Commence**
- **30th March, 2025 - Final Data Analytics Workshop**

Sign up Today & Accelerate your Career!

Join Now

Join now and be part of the Data Analytics Workshop by the Accelerate Team GSK!

Limited Seats available, so Hurry Up!

Reach Out to Us

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 **Global Shapers Kandy**

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