<!doctype html><html lang="en"><head><meta charset="utf-8"><title>Data Analysis Using Python — Course content</title><style>
@page { size: A4; margin: 16mm 15mm 18mm; }
* { box-sizing: border-box; }
body { margin: 0; font: 10.5pt/1.5 'Segoe UI', Inter, Arial, sans-serif; color: #13233D; }
h1, h2, h3 { font-family: 'Segoe UI Semibold', 'Segoe UI', Arial, sans-serif; color: #173358; margin: 0; }
.top { display: flex; justify-content: space-between; align-items: center; padding-bottom: 10px; border-bottom: 3px solid #28C09C; }
.top img { height: 40px; }
.top .tag { font: 8pt 'Consolas', monospace; letter-spacing: .12em; text-transform: uppercase; color: #0F7A60; }
.hero { padding: 18px 0 8px; }
.area { display: inline-block; font: 8pt 'Consolas', monospace; letter-spacing: .1em; text-transform: uppercase; padding: 3px 8px; border-radius: 99px; }
.area.bi { background: #FEF3E2; color: #B45309; } .area.data { background: #E6F7F1; color: #0F7A60; }
.area.ai { background: #EEF0FF; color: #4F46E5; }
h1 { font-size: 22pt; line-height: 1.15; margin: 8px 0 8px; }
.overview { color: #4A5A73; margin: 0 0 12px; }
.facts { display: flex; border: 1px solid #DCE2EA; border-radius: 8px; overflow: hidden; margin: 6px 0 14px; }
.facts div { flex: 1; padding: 7px 10px; border-right: 1px solid #DCE2EA; }
.facts div:last-child { border-right: 0; }
.facts dt { font: 7pt 'Consolas', monospace; letter-spacing: .08em; text-transform: uppercase; color: #4A5A73; }
.facts dd { margin: 2px 0 0; font-weight: 600; font-size: 9.5pt; color: #173358; }
h2 { font-size: 13pt; margin: 16px 0 6px; padding-bottom: 3px; border-bottom: 1px solid #DCE2EA; }
.pills { display: flex; flex-wrap: wrap; gap: 5px; margin: 0; padding: 0; list-style: none; }
.pills li { padding: 2px 8px; border: 1px solid #DCE2EA; border-radius: 5px; font-size: 9pt; }
ul.check { margin: 0; padding: 0; list-style: none; columns: 2; column-gap: 18px; }
ul.check li { break-inside: avoid; padding-left: 14px; position: relative; margin-bottom: 3px; }
ul.check li::before { content: "\2713"; position: absolute; left: 0; color: #0F7A60; font-weight: 700; }
.module { break-inside: avoid; border: 1px solid #DCE2EA; border-radius: 8px; padding: 8px 12px; margin-bottom: 7px; }
.module h3 { font-size: 10.5pt; display: flex; gap: 8px; align-items: baseline; }
.module .no { font: 8pt 'Consolas', monospace; color: #0F7A60; background: #EAF8F3; padding: 1px 6px; border-radius: 4px; white-space: nowrap; }
.module h4 { font-size: 9pt; margin: 6px 0 2px; color: #173358; }
.module ul { margin: 4px 0 0; padding-left: 16px; columns: 2; column-gap: 18px; font-size: 9.2pt; color: #3D4559; }
.module li { break-inside: avoid; }
table { width: 100%; border-collapse: collapse; font-size: 9pt; }
th, td { text-align: left; padding: 5px 8px; border-bottom: 1px solid #EEF1F5; vertical-align: top; }
th { background: #F7F9FB; color: #173358; }
td:first-child { font-weight: 600; color: #173358; width: 34%; }
.box { break-inside: avoid; background: #EAF8F3; border-left: 3px solid #28C09C; padding: 8px 12px; border-radius: 0 6px 6px 0; }
.cta { break-inside: avoid; margin-top: 18px; padding: 12px 14px; background: #0F2340; color: #fff; border-radius: 8px; display: flex; justify-content: space-between; gap: 12px; font-size: 9.5pt; }
.cta strong { color: #5FD3B4; }
.foot { margin-top: 10px; font-size: 8pt; color: #8A96A8; text-align: center; }
</style></head><body>

Course content · Updated Oct 2026 Data & Analytics<h1>Data Analysis Using Python</h1> A practical introduction to analysing data with Python. You set up Jupyter, learn just enough Python to be productive, then use Pandas to import, clean, reshape and summarise data, and Matplotlib to chart it — finishing with a complete cleaning-to-visualization exercise. <dl class="facts"> <dt>Duration</dt><dd>Confirmed at enrollment</dd> <dt>Structure</dt><dd>8 modules</dd> <dt>Level</dt><dd>Beginner</dd> <dt>Mode</dt><dd>Physical or live online</dd> </dl> <h2>What you’ll be able to do</h2><ul class="check">
Set up Python and Jupyter Notebook and work with Pandas and Matplotlib
Write basic Python: variables, lists, dictionaries, conditions, loops

and functions
Import, inspect and export Excel and CSV data with Pandas
Clean data: missing values, duplicates, data types, text, dates and categories
Filter, sort, merge, group, pivot and cross-tabulate data
Summarise data with frequencies, descriptive statistics and percentages
Build and customise bar, line, pie, histogram, scatter and box plots
Use an AI assistant to draft analysis code, and verify the numbers yourself
<h2>Tools</h2><ul class="pills">
Python
Jupyter Notebook
Pandas
Matplotlib
Google Colab
An AI assistant (ChatGPT, Claude or Copilot)
<h2>Before you start</h2> None. The course starts with installing Python and covers the programming basics you need. A laptop you can install software on. <h2>Curriculum</h2> <h3>Module AIntroduction and setup</h3>
Python installation
Jupyter Notebook
Introduction to Pandas and Matplotlib
Importing libraries
Google Colab: Python in the browser, nothing to install <h3>Module BPython basics</h3>
Variables and data types
Operators
Lists and dictionaries
If–else statements
Loops
Functions (basic) <h3>Module CWorking with data using Pandas</h3>
Series and DataFrame
Import Excel and CSV files
Data properties
Export data
Selecting rows and columns
A first look at Polars for larger files <h3>Module DData cleaning</h3>
Handling missing values
Removing duplicates
Changing data types
Find and replace
Rename columns
String processing
Date and time
Data categorization
Apply functions <h3>Module EData manipulation</h3>
CRUD operations
Filtering data
Sorting
Merge and join
GroupBy
Pivot table
Crosstab <h3>Module FExploratory data analysis</h3>
Frequencies
Descriptive statistics
Value counts
Percentage calculation
Basic data summary
Using an AI assistant to draft Pandas code — and checking the result <h3>Module GData visualization</h3>
Bar chart
Line chart
Pie chart
Histogram
Scatter plot
Box plot
Chart customization
Export charts <h3>Module HPractical exercise</h3>
Complete data cleaning
Basic analysis
Visualization
Q&A <h2>Your project</h2> Module H is a complete practical exercise: you take a raw dataset through cleaning, basic analysis and visualization, then walk through your results in a Q&A. <h2>Where you’ll use this</h2><ul class="check">
Cleaning and combining messy exports from several systems
Repeatable monthly analysis that runs in seconds
Exploring a new dataset before building a dashboard
Survey and operational data summaries
A foundation for machine learning and AI work later Register for the next batch
trainingcenter.gexonai.com/enroll?program=data-analysis-python WhatsApp +977 971-7157838
info.gexontraining@gmail.com · Lalitpur, Nepal Batch dates, schedule and fee are confirmed at enrollment. </body></html>