

TIB ACADEMY

TRAINING IN BANGALORE

DELIVERING THE BETTER TRAINING



Flexible, Affordable, Accessible service.



CALL US

+91 9513332301



TIB ACADEMY'S SERVICE FEATURE



Affordable Fees

We provide quality training with lowest price. This opportunity is available only at TIB Academy.



Experienced Trainers

Learn technology with a experienced professional who have expertise in their particular technology.



Flexible Timings

We believe that everyone should get the opportunity to learn their desired course. So we provide flexibility timings.



DATASCIENCE

Quick Contact



Second Floor and Third Floor, 5/3 BEML Layout, Varathur Main Road, Kundalahalli Gate, Bengaluru, Karnataka 560066

www.traininginbangalore.com



info@tibacademy.com



+91 9513332306





Introduction Basic functions

- Interaction with Numpy
- Index Tricks
- Shape manipulation
- Polynomials
- Vectorizing functions
- Type handling
- Other useful functions

Special functions Integration Optimization

- Nelder-Mead Simplex algorithm
- Broyden-Fletcher-Goldfarb-Shanno Algorithm
- Newton Conjugate Gradient Algorithm
- Least Squares minimization
- Root Finding

Interpolation 1-D interpolation Multivariate data interpolation (grid data) Spline interpolation

- Spline interpolation in 1-d: Procedural (interpolate.splXXX)
- Spline interpolation in 1-d: Object-oriented (UnivariateSpline)
 - Two-dimensional spline representation: Procedural (bisplrep)
 - Two-dimensional spline representation: Object-oriented (BivariateSpline)





Using radial basis functions for smoothing/interpolation

- 1-d Example
- 2-d Example

Fourier Transforms Fast Fourier transforms

- One-dimensional discrete Fourier transforms
- Two and n-dimensional discrete Fourier transforms
- FFT convolution Discrete Cosine Transforms
- Type I DCT
- Type II DCT
- Type III DCT
- DCT and IDCT

Example Discrete Sine Transforms

- Type I DST
- Type II DST
- Type III DST
- DST and IDST

Cache Destruction Signal Processing Linear Algebra Basic Routines

- Finding determinant (matrix)
- Computing norms
- Solving least squares problems and pseudo inverses
- Decompositions Sparse Eigenvalue Problems with ARPACK Compressed Sparse Graph Routines Spatial data structures and algorithms





- Delaunay triangulations
- Coplanar points
- Convex hulls
- Voronoi diagrams

Statistics Random Variables

- Shifting and Scaling
- Shape parameters
- Freezing and Distribution
- Fitting distributions
- Building specific distributions
- Analysing one sample
- Kernel Density estimation

Multidimensional image processing

File IO

Matlab

Weave





Other Activities

Assessments

- **Objective Assessments**

- Syntactical based
- Scenario based

Note: At least 2 objective based assessments in each module

- **Hands On – Practical Assessments**

- Scenario based

Note: At least 2 Hands on assessments in each module

Assignments

- **Hands On – Practical Assignments**

Note: At least 4 Hands on assignments in each module

Tasks – Home Work

- **Regular tasks on each module**

Note: Tasks are focused more to improve self learning

Resume Support & Interview Preparation

- **Work on one or two mini projects**
- **Discuss and convert the current working project into Data Science With Python project to add in resume & to explain Data Science With Python experience in interviews.**