

PREREQUISITES - SOFTWARE

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The screenshot shows a web browser with multiple tabs. The active tab is titled "Python 3.10 And Its New Features" and displays the URL analyticsindiamag.com/python-3-10-and-its-new-features/. The page features the IIM Calcutta logo and navigation links: Topics, Connect with Peers, Partner with us, and Contact us. A search icon is located in the top right corner. The main content area lists new syntax features and PEPs for Python 3.10:

- New syntax features
- PEP 634: Structural Pattern Matching- Specification
- PEP 635: Structural Pattern Matching- Motivation and Rationale
- PEP 636: Structural Pattern Matching- Tutorial
- Bpo-12782: Parenthesized context managers (This feature allows formatting a long collection of context managers in multiple lines).
- New feature in the standard library
- PEP 626 – Add Optional Length – Checking to zip
- Interpreter improvements
- PEP 626 – precise line numbers for debugging and other tools.
- New typing features
- PEP 604 – Allowing writing union types as X | Y
- PEP 613 – Explicit type aliases
- PEP 612 – Parameter specification variables
- Important deprecations, removals or restrictions:
- PEP 644 – Require OpenSSL 1.1.1 or newer
- PEP 632 – Deprecate distutils module
- PEP 623 – Deprecate and prepare for the removal of the wstr member in

On the right side, there is a promotional banner for IIM Calcutta's "ONE-YEAR ADVANCED PROGRAMME IN DATA SCIENCES" with a "Click for details" button. Below the banner, the text "Our Upcoming Events" is visible.

The screenshot shows a "Python 3.7.0 Shell" window. The title bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The shell displays the following information:

```
Python 3.7.0 (tags/v3.7.0:1bf9cc5093, Jun 27 2019, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
```

The status bar at the bottom indicates "Ln: 3 Col: 4".