**Title : MATLAB CAPABILITIES**

**Abstract:**

MATLAB combines a desktop environment tuned for iterative analysis and design processes with a programming language that expresses matrix and array mathematics directly.

It includes the Live Editor for creating scripts that combine code, output, and formatted text in an executable notebook.

**Purpose of the project :**

* The main purpose of project is to analyze and design systems and products that transform our world.
* The heart of MATLAB is the MATLAB language, a matrix-based language allowing the most natural expression of computational mathematics.

**Proposed system**:

**1.The Professionally Built :-**

* MATLAB toolboxes are professionally developed, rigorously tested, and fully documented.

**2.With Interactive Apps :-**

* MATLAB apps let you see how different algorithms work with your data. Iterate until you’ve got the results you want, then automatically generate a MATLAB program to reproduce or automate your work.

**3. The Ability to Scale :-**

* Scale your analyses to run on clusters, GPUs, and clouds with only minor code changes. There’s no need to rewrite your code or learn big data programming and out-of-memory techniques

**Conclusion:**

* MATLAB has many capabilities whoich are used to transform our world.It is a powerful and widely used programming language and software environment that offers numerous applications and benefits across various fields. It provides a comprehensive set of tools for numerical computation,data analysis,modeling,simulation and algorithm development.

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