Introduction to MATLAB

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Tools Used in Data Analysis

- **Spreadsheets**
  - Excel

- **Specialized and single-purpose tools**
  - Image processing application
  - Speech recognition application

- **General-purpose languages**
  - C, C++, FORTRAN
  - Java, Visual Basic, C#
  - R, Python

- **Technical computing languages**
  - MATLAB
Agenda

- Import Data
- Build a Mathematical Model
- Share as an automated report
Technical Computing Workflow

Access
- Files
- Databases / Datafeeds
- Hardware

Explore & Discover
- Data Analysis & Modeling
- Algorithm Development
- Application Development

Automate

Share
- Reporting and Documentation
- Outputs for Design
- Integration

- MATLAB
- Excel
- C/C++
- Java
- .NET
- .exe
- .dll