* The chapter one is introduction about machine learning concepts and Linear algebra concepts .
* Eigen is a general-purpose linear algebra C++ library. In Eigen, all matrices and vectors are objects of the Matrix template class, and the vector is a specialization of the matrix type, with either one row or one column. Tensor objects are not presented in official APIs but exist as submodules.
* We can define the type for a matrix with known dimensions and floating-point data type like this:

| **typedef** Eigen::Matrix MyMatrix33f; |
| --- |