**lIntroduction to Programming in C++**

**with STL (Standard Template Library)**

**Contributors:**

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| --- | --- |
| **Deval Sethi**  (Founder)  [LinkedIn](https://www.linkedin.com/in/deval-sethi-00a2912a)  devaljain1998@gmail.com | **Ujjwal Singh Bhadoria**  (Founder)  [LinkedIn](https://www.linkedin.com/in/ujjwal-bhadoria-65a863166)  ujjwalsinghgravity@gmail.com |

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| --- | --- | --- |
| **Arghya Debnath**  [LinkedIn](https://www.linkedin.com/in/Arghya7)  arghya.debnath97@gmail.com | **Prateek Jain**  [LinkedIn](https://www.linkedin.com/in/prateek-jain-a0742914a/)  prateekj1171998@gmail.com | **Shishir Maurya**  [LinkedIn](https://www.linkedin.com/in/shishir-maurya-16006081)  shishir101098@gmail.com |

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# Introduction:

* [**What is Machine Learning?**](https://www.expertsystem.com/machine-learning-definition/)
* [**Why ML?**](https://www.sas.com/en_us/insights/analytics/machine-learning.html)
* [**Career benefits**](https://www.quora.com/q/womooivxxvhcldcs/What-will-be-the-scope-of-data-science-after-5-years?ch=3&share=5c227e4c)

# Learning Path

1. **Pre-Requisites**:
   * Begin with Python / R //Have to paste their links
   * [Algorithms to must learn before starting into ML](https://www.favouriteblog.com/15-algorithms-machine-learning-engineers/)
   * Mathematics:
     + 1. [Calculus](https://www.youtube.com/playlist?list=PLZHQObOWTQDMsr9K-rj53DwVRMYO3t5Yr)
       2. [Linear Algebra](https://www.youtube.com/playlist?list=PLZHQObOWTQDPD3MizzM2xVFitgF8hE_ab)
       3. [Probability and Statistics](https://drive.google.com/open?id=1KNXynRRyV_p1hh0a0ZCrAHqijJdw4lNW)
2. **The Actual ML** {[Andree NG’s Course, Top-Rated Course](https://www.coursera.org/learn/machine-learning), [Machine Learning A-Z™](https://drive.google.com/drive/folders/1i3jXi0o-COk7L9Mfrg55Ysae8cdEIAHU) (Direct-Download)}
3. Next Important and Must To-do thing is to test your learning by developing a project:
   * [Kaggle](https://www.kaggle.com/)
   * [Google Data-Sets](https://ai.google/tools/datasets/)

# Other Resources: //Some good resources should be added

*Books:*

* Top Books for C++: (Latest Editions According to newest C++ Standard)
  + [The C++ Programming Language by Bjarne Stroustrup](https://drive.google.com/file/d/1bdKPEwEts9FUce5_1Ikx9KAje0PrmxWP/view?usp=sharing)
  + [C++ Primer (5th Edition)](http://download.library1.org/main/871000/732df2f1f683b3c7bbaca1ed264cd6b7/Stanley%20B.%20Lippman%2C%20Jos%C3%A9e%20Lajoie%2C%20Barbara%20E.%20Moo-C%2B%2B%20Primer-Addison-Wesley%20Professional%20%282012%29.pdf)
  + [Effective Modern C++ 42 Specific Ways to Improve Your Use of C++11 and C++14](http://download.library1.org/main/1709000/10ebe71ccfdd1c3006e118b5b78c8153/Scott%20Meyers-Effective%20Modern%20C%2B%2B%20%2042%20Specific%20Ways%20to%20Improve%20Your%20Use%20of%20C%2B%2B11%20and%20C%2B%2B14-O%27Reilly%20Media%20%282014%29.pdf)
* Books for beginners:
  + [Object-Oriented Programming using C++](http://cache3.pdfdrive.com/dl.php?id=26350490&h=fca0bf04ff69ad949e7598c950f11a86&u=cache) by E. Balagurusamy.
  + [GoalKicker’s C++ BOOK](https://books.goalkicker.com/CPlusPlusBook/)

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