## Please update the Form on the School website to record the Super-curricular activity you have completed



□ Watch/Listen
<ul> <li>Introduction to Algorithms (MIT OpenCourseWare</li> </ul>
<ul> <li>Google Data Center 360° Tour</li> </ul>
(https://youtu.be/zDAYZU4A3w0?si=c5oh_l63mlDFxRJD)
Impacts of Technology
<ul> <li>What is Open Source explained in LEGO</li> </ul>
(https://youtu.be/a8fHgx9mE5U?si=YdV1pJihFF0CzcP9)
Create/Explore
Introduction to Modern AI (Learn to use AI in your daily life, craft effective prompt chatbots, and use computer vision and machine translation.)
6 hours   Beginner   Self-Paced   Achievements Cisco Introduction Modern
Al Badge
https://www.netacad.com/courses/introduction-to-modern-
ai?courseLang=en-US
<u></u>
Module 1: Introduction to Modern Al
<ul> <li>AI, Machine Learning and Models</li> </ul>
<ul><li>Computer Vision</li></ul>
Machine Translation
<ul><li>Chatbots Overview</li></ul>
<ul> <li>Ways to use Chatbots</li> </ul>
<ul> <li>Generative AI and Other Vocabulary Words</li> </ul>
Module 2: Open End Project

Read	□ Watch/Listen
Research & Theory  Explore algorithm design (try implementing sorting algorithms)  Study logic gates and Boolean algebra  Learn about Turing Machines or the Halting Problem  Read Turing's original papers or summaries	<ul> <li>Stay informed on current trends:</li> <li>Podcasts: The Vergecast, Darknet Diaries, Lex Fridman Podcast</li> <li>Blogs: Paul Graham (Y Combinator), Joel Spolsky, Coding Horror</li> <li>News: Ars Technica, Wired, Hacker News</li> </ul>
Visit	Create/Explore
<ul> <li>The Alan Turing Institute</li> <li>The UK's national institute for data science and AI.</li> <li>Located at the British Library in King's Cross.</li> <li>Sometimes offers talks, workshops, and events on cutting-edge research in computer science.</li> </ul>	<ul> <li>Doing actual coding shows applied skill.</li> <li>Build small games, apps, or tools (GitHub portfolio is a plus)</li> <li>Contribute to open-source projects (GitHub, GitLab)</li> <li>Advent of Code – annual programming puzzles</li> <li>Hackathons – online or in-person (e.g. Major League Hacking)</li> <li>Google Code Jam, Codeforces, AtCoder, LeetCode, HackerRank</li> </ul>
<ul> <li>Tech Meetups and Conferences</li> <li>London hosts many tech meetups and conferences throughout the year (e.g., London Tech Week).</li> <li>Check websites like Meetup.com or Eventbrite for computer science and programming events during your visit.</li> </ul>	Exploring Networking with Cisco Packet Tracer  www.netacad.com/courses/packet-tracer  Python Essentials 1  This course is part of the Learning Collections - Python  Learn fundamental concepts of computer programming and start building  coding skills with the Python programming language.  Free   Duration: 30 hours   n Beginner   Self-Paced   Achievement Badges

Python Essentials 1, Introduction to Python and Programming, Data Types, Variables, and Basic I/O, Control Flow and Lists, Collections, Functions, and Exceptions











https://www.netacad.com/courses/python-essentials-1?courseLang=en-US

What you will learn:

PE1: Module 1: Introduction to Python and Computer Programming
PE!: Module 2: Python Data Types, Variables, Operators, and Basic I/O
PE1: Module 3: Boolean Values, Conditional Execution, Loops, Lists
PE1: Module 4: Functions, Tuples, Dictionaries, Exceptions, and Data