

CISCO AI & Data Science



Course Name Cisco Artificial Intelligence and Data Science

Instructor Cisco Networking Academy Instructor

Course Delivery Online/Remote

At Computer Science Mentors, this course takes you inside the world of data science. You will learn the basics of data science, data analytics, and data engineering to understand how machine learning shapes the future of business, healthcare, education, and more. Data science professionals who can provide actionable insights for data-driven decisions are in high demand worldwide. Unlock your potential in AI with this comprehensive course from **IBM SkillsBuild** and **Computer Science Mentors**. Artificial Intelligence (AI) is among the hottest technologies reshaping the future of work! Here's your opportunity to build your knowledge, understand what AI can mean for your future, and visualize yourself in an AI-driven career. You'll begin by exploring AI's history, then discover how it can change the world around you. As you progress, you will delve into how AI understands language, interprets images, and learns using neural networks modelled after the human brain. You'll complete a series of simulations to build and test a machine learning model using IBM Watson Studio, then you'll learn about AI ethics and finish with tips on how to navigate the fast-growing AI job market.

Used by startups and tech giants like Google, Facebook, Netflix, and more, Python offers you endless possibilities for creating small and large-scale software projects. User-friendly with easy-to-read code, Python is a great first programming language to learn and requires no prior programming knowledge. Python skills open you up to careers in almost any industry and are required if you want to continue to more advanced, higher-paying software development and engineering roles such as software engineer, systems administrator, and security engineer. In this course, offered by Computer Science Mentors, you will learn in-demand skills used in **Machine Learning and Artificial Intelligence**, such as how to design, develop, and improve



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computer programs, methods for analyzing problems using programming, programming best practices, and more. The course also prepares you for the PCEP – Certified Entry-Level Python Programmer certification (Exam PCEP-30-0x).

Skills You Will Gain

- Data Science and AI Basics
- Natural Language Processing and Computer Vision
- Machine Learning and Deep Learning, AI Model and IBM Watson
- Data Analytics and Statistics, Relational Database/SQL
- Python Data Types, Variables, Operators, Conditional Loops, Functions, Tuples, Dictionaries, Data Processing
- Python Modules, Packages, PIP, OOP, Exceptions

Target Jobs & Expected Salaries

- Junior Data Analyst
- Machine Learning Engineer
- AI Technician/Data Engineer
- Python Developer
- \$50000-\$70000/£25000-£35000

Course Schedule (190 Hours Learning)

Week	Subject	Mode
Week 1	Introduction to Data Science	Self-paced
Week 2	Artificial Intelligence and Machine Learning	Self-paced
Week 3	Natural Language Processing and Computer Vision	Self-paced
Week 4	Deep Learning, AI Model, IBM Watson Studio	Self-paced
Week 5	AI Ethics, Data Gathering and Investigation, Cleaning Data	Self-paced
Week 6	Data Transformation, Relational Database, SQL, Tableau, Ethics and Bias in Data	Self-paced
Week 7	Python Data Types, Variables, Operators, Basic I/O Operations	Self-paced

Week	Subject	Mode
Week 8	Boolean Values, Conditional Execution, Loops, Lists, Bitwise Operations, Tuples	Self-paced
Week 9	Dictionaries, Exceptions, Data Processing,	Self-paced
Week 10	Packages, PIP, Strings, Object Oriented Programming	Self-paced
Week 11	Python Essential Course Exam	Self-paced

Exam schedule

Week	Subject
Week 2	Introduction to Data Science Exam
Week 8	Python Essentials 1 Course Exam
Week 11	Python Essentials 2 Course Exam

After completing the training and **PCEP – Certified Entry-Level Python Programmer certification** certificate exam, you will successfully achieve the Junior Python Programmer or IT Support Technician, which is a globally recognised certification from Cisco. You can aim for the **PCAP – Certified Associate in Python Programming.**

Cisco Verified Course Badges Included



Any Questions?

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