



OLLSCOIL NA
GAILLIMH
UNIVERSITY
OF GALWAY

Scoil na Ríomheolaíochta
School of Computer Science



Professional Diploma
**Practical AI for
Software Developers**

University
ofGalway.ie

Professional Diploma Practical AI for Software Developers

Why choose this course?

This diploma addresses the urgent need for AI expertise in the software industry. Gartner, an American research and advisory firm focusing on business and technology topics has predicted that 80% of software engineers will need to upskill in AI by 2027.

This one-year, fully online, part-time programme covers machine learning, AI programming tools, AI model deployment, and the future of AI in software development with practical real-world examples.

Course Overview

This Level 9 Professional Diploma in Practical AI for Software Developers offers a fully online, part-time format tailored for working professionals. It provides students with the hands-on experience and practical skills necessary for software developers to understand, build, and deploy modern artificial intelligence in customer facing projects. Designed for those in full-time employment or unemployed, this flexible program addresses the growing demand for AI expertise.

Semester 1 Modules:

- Principles of Machine Learning
- Programming and Tools for Artificial Intelligence

Semester 2 Modules:

- Future of Artificial Intelligence
- AI Model Deployment

Semester 3 Module:

- Summer Capstone Project

Career Opportunities

Irish industry emphasises a growing need for software developers skilled in AI and machine learning integration. Artificial intelligence is no longer exclusive to researchers and ML engineers, software developers are now expected to understand and apply AI in products. This course offers a unique and highly employable pathway for software developers looking to enhance their careers in the evolving tech landscape.

Duration

1 year, part-time (online)

Average Intake

35

Artificial Intelligence is transforming the software industry at an unprecedented pace. This professional diploma equips software developers with practical AI skills through hands-on learning, so that they can build, deploy, and apply AI confidently in modern software development environments.

Dr Priyanka Verma &
Dr Joseph Lemley,
Programme Directors



Find out more

The College of Science
and Engineering, School of
Computer Science



Further information can be
found on the Springboard+
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