

Microsoft Skills For Jobs

Microdegree Program



LEARNER-CENTRIC | WORLD-CLASS | FUTURE-READY | GLOBAL EMPLOYABILITY | PATHWAY TO HIGHER EDUCATION

A joint program by Microsoft and KAMK University
with European Higher Education Transfer Credits (ECTS)



AI DEVELOPER

SELF-PACED | 8 CERTIFICATES | ONLINE | IN-CLASS MENTORSHIP | ASSIGNMENTS AND EXAM BASED

IN PARTNERSHIP WITH GLOBAL MENTOR COMPANIES

AI DEVELOPER MICRODEGREE PROGRAM BROUGHT TO YOU BY





What is it?

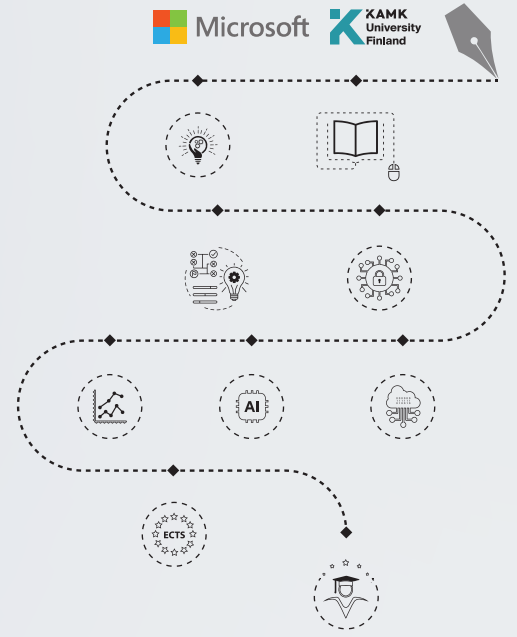
The Microsoft Skills for Jobs Microdegree Program is designed to help you build **real-world tech skills** that employers want and a pathway for higher studies in EU countries.

Microdegree Programs focuses on **in-demand technology** areas like cybersecurity, cloud computing, Low code tool set, AI, data analytics, and more. The program is built around **practical, job-relevant skills and uses a flexible, self-paced learning** model that fits your schedule.

Whether you are a student, recent graduate, freelancer, technology professional, career changer, or an individual seeking skills for employment without pursuing a full degree or diploma, this program is tailored for you.

You will learn through high-quality courses jointly developed by **Microsoft, KAMK University of Applied Sciences (Finland), and global tech companies.**

The courses follow the **European Credit Transfer and Accumulation System (ECTS)**, meaning your credits and certificates are internationally recognized for quality international and local jobs and higher studies in EU countries. The Microsoft Skills for Job Microdegree Program is an online program designed for self-paced learning, with in-class mentorship (region-specific) to support your journey.



You will receive:

- ECTS credits for each course
- Digital badges
- Course Certificates from Microsoft and KAMK University
- Professional Certificate from Microsoft and KAMK University



Concepts &
Technologies



ECTS
Credits



Course
Certificates



LinkedIn
Badge



Online
Verification



International
Jobs



Local
Jobs



Study
Abroad



Microdegree Program Goals



Validate your skills and knowledge for the global job market



Gain a competitive edge in today's evolving employment landscape



Upskill or reskill to support career growth and advancement



Bridge the gap between academic learning and real-world industry demands



Create a pathway to higher education opportunities in EU countries



Promote lifelong learning through flexible, targeted, and accessible education

The Microdegree Program is Designed For



University students seeking hands-on, career-relevant qualifications



Job seekers aiming to stand out in a competitive recruitment process



Career changers acquiring new digital skills to enter the IT industry



Freelancers looking to expand services and increase earning potential



Working professionals focused on efficient upskilling or reskilling



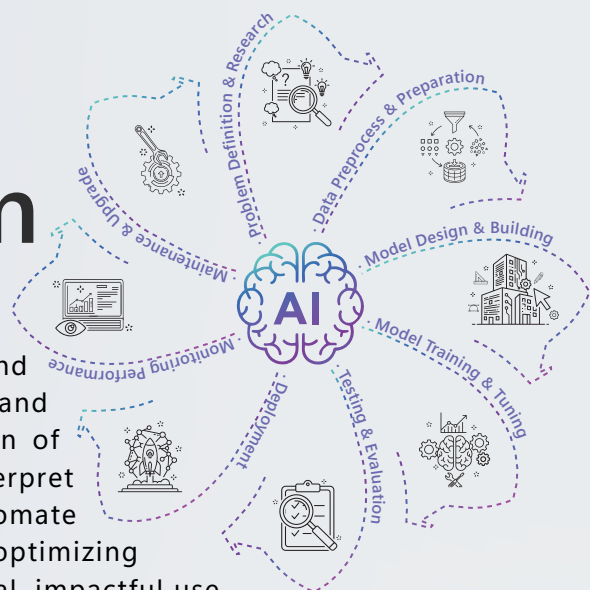
Organizations investing in certified microlearning for employee development



Students planning for higher education in European & North American Universities

AI Developer Microdegree Program

An **AI Developer** designs and builds intelligent applications and solutions that leverage cloud computing, artificial intelligence, and data technologies to solve real-world challenges for businesses and organizations. As an AI Developer, you work at the intersection of software development and AI, developing systems that can interpret visual data, understand language, generate content, and automate workflows. Whether you're enhancing customer experiences or optimizing operations, your role brings emerging AI capabilities into practical, impactful use.



This program is made up of seven comprehensive courses that take you from foundational cloud knowledge to hands-on AI development. You will learn:

Microsoft Azure Fundamentals, manage cloud resources, data storage, governance, and cost optimization. **Core AI Concepts**, apply computer vision, natural language processing, document intelligence, and generative AI. **Data & Analytics**, work with relational/non-relational databases, analyze large datasets, and use business intelligence tools. **Collaborative Development**, use GitHub for version control, project management, and AI-assisted coding with GitHub Copilot. **Cloud Native Data Storage**, design scalable, secure solutions with Azure Cosmos DB. **Azure Development**, build and secure cloud apps, work with APIs, containers, and unstructured data. **AI Development**: create intelligent applications that integrate Azure AI services, from concept to deployment.

Earn Globally Accepted Industry & Academia Recognized Credentials

- 7 Course Certificates issued by Microsoft and KAMK University
- Domain Professional Certificate issued by Microsoft and KAMK University
- Course skills qualification badges
- 10 ECTS credits transcript from KAMK University
- LinkedIn badge
- QR-verifiable Certificates for global authentication

Job Roles For Graduates

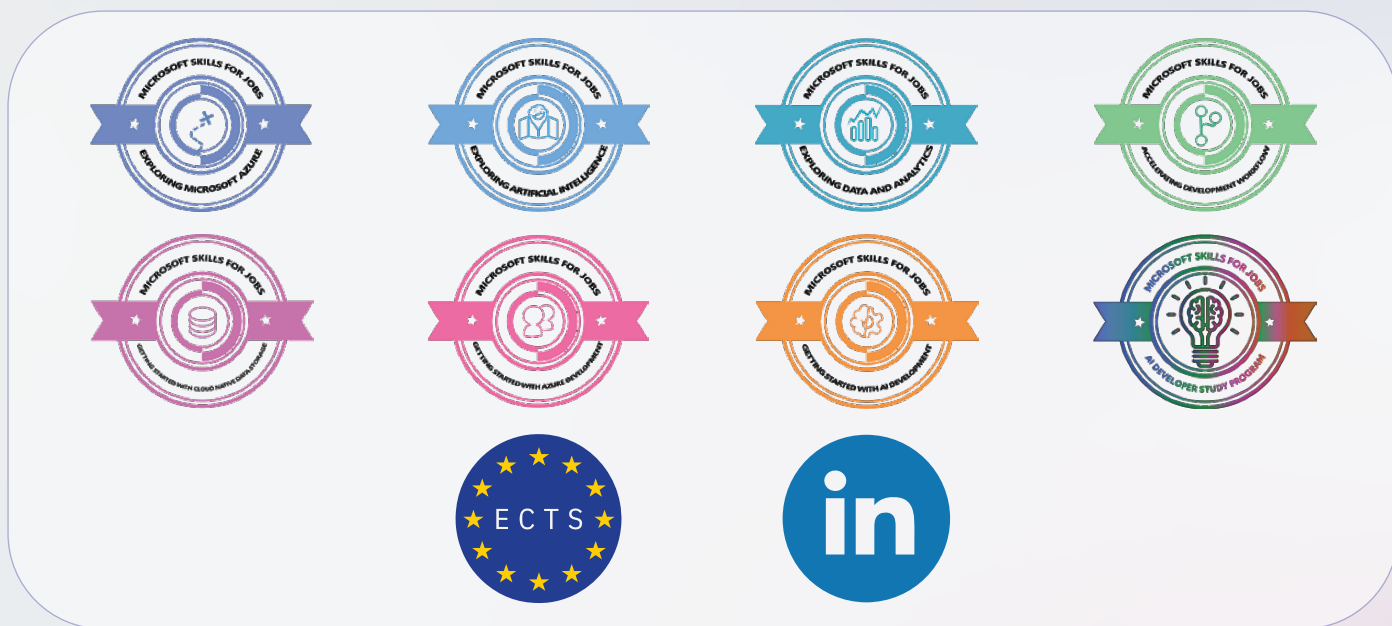
- Cloud and AI Developer.** Build and deploy intelligent applications leveraging Azure AI services.
- Data Engineer / Analytics Developer.** Design, manage, and analyze data pipelines with cloud-native tools
- ML Practitioner / AI Solutions Architect.** Create scalable, intelligent solutions integrating AI into business workflows
- DevOps / Automation Engineer with AI Focus.** Enhance development workflows using GitHub Copilot and cloud automation tools
- Junior AI Engineer.** Work in roles focused on computer vision, NLP, or generative AI implementation across sectors

Study Program

Certificate	Course	Online Self-Study	Mentorship	Online Assessments	ECTS Credits	Course Certificate
01	Exploring Microsoft Azure	54 Hours	04 Hours	Yes	02 Credits	Completion Certificate
02	Exploring Artificial Intelligence	54 Hours	04 Hours	Yes	02 Credits	Completion Certificate
03	Exploring Data And Analytics	27 Hours	04 Hours	Yes	01 Credit	Completion Certificate
04	Accelerating Development Workflow	27 Hours	04 Hours	Yes	01 Credit	Completion Certificate
05	Getting Started With Cloud Native Data Storage	27 Hours	04 Hours	Yes	01 Credit	Completion Certificate
06	Getting Started With Azure Development	27 Hours	04 Hours	Yes	01 Credit	Completion Certificate
07	Getting Started With AI Development	54 Hours	04 Hours	Yes	02 Credits	Completion Certificate
					270 Hours	10 Credits

***Region-Specific**

Students earn the AI Developer 'Professional Certificate and Shareable Badge' after completing all 7 courses



7 Course Certificates

Professional Certificate





COURSE 1 Exploring Microsoft Azure

UNIT 01

INTRODUCTION TO AZURE SECTIONS

1. Basics of Azure
2. Physical Infrastructure
3. Management Infrastructure
4. Computing Service
5. Virtual Networking

UNIT 02

DATA, STORAGE AND SAFETY

1. Azure Storage
2. Storage Services
3. Data Migration
4. Authentication and Authorization
5. Conditional Access

UNIT 03

GOVERNANCE AND COST MANAGEMENT

1. Project Management in Azure
2. Managing with Azure Arc
3. Governance and Compliance
4. Cost Management
5. Summary



COURSE 2 Exploring Artificial Intelligence

UNIT 01

GETTING STARTED WITH AZURE AI

1. Fundamental Concepts of AI
2. Introduction to Machine Learning
3. Supervised Learning
4. Unsupervised Learning
5. Azure and AI

UNIT 02

AZURE AND COMPUTER VISION

1. Fundamental Concepts of Computer Vision
2. AI and Facial Recognition
3. Recognizing Characters with AI

UNIT 03

AZURE AND NATURAL LANGUAGE PROCESSING

1. Fundamental Concepts of NLP
2. Question Answering
3. Conversational Language Understanding
4. Azure and AI Speech

UNIT 04

AZURE AND GENERATIVE AI

1. Fundamentals of Generative AI
2. Azure OpenAI Services
3. AI and Copilots
4. Responsibility and Ethics

UNIT 05

AZURE AND DOCUMENT INTELLIGENCE

1. Fundamental Concepts of DI
2. Azure and Cognitive Search
3. Enriched Data and Query Design
4. Summary



COURSE 3 Exploring Data And Analytics

UNIT 01

FOUNDATIONAL DATA CONCEPTS

1. Identifying Data
2. Databases and Processing
3. Data Roles and Services

UNIT 02

RELATIONAL AND NON-RELATIONAL DATA

1. Exploring Relational Data
2. Relational Databases in Azure
3. Adopting Cloud Services
4. Exploring Non-relational Data
5. Fundamentals of Azure Cosmos DB

UNIT 03

DATA ANALYTICS IN AZURE

1. Large-scale Analytics
2. Real-time Analytics
3. Data Visualization
4. Summary



COURSE 4 Accelerating Development Workflow

UNIT 01

GETTING STARTED WITH GITHUB

1. Introduction to GitHub
2. Collaboration in GitHub
3. Administration in GitHub
4. Managing Permissions

UNIT 02

INCREASING PRODUCTIVITY WITH GITHUB COPILOT

1. Introduction to GitHub Copilot
2. Prompt Engineering
3. GitHub Copilot for Business

UNIT 03

GITHUB COPILOT AND PROGRAMMING

1. GitHub Copilot and JavaScript
2. GitHub Copilot and Python
3. Automating Workflows with GitHub Actions
4. Summary

COURSE 5 Getting Started With Cloud Native Data Storage

UNIT 01

GETTING STARTED WITH GLOBAL DATABASE SERVICES

1. Empowering Global Applications
2. Introduction to Azure Cosmos DB
3. Exploring Global Databases
4. Components of Cosmos DB for NoSQL

UNIT 02

DEVELOPING WITH AZURE COSMOS DB

1. Azure Cosmos DB in Action
2. Planning NoSQL Solutions
3. Implementing NoSQL Solutions
4. Migrating Data

UNIT 03

WORLDWIDE DATA SOLUTIONS

1. Connecting to a NoSQL Database
2. Configuring the SDK
3. Advanced Capabilities of Azure Cosmos DB
4. Summary

COURSE 6 Getting Started With Azure Development

UNIT 01

FOUNDATIONS OF AZURE DEVELOPMENT

1. Introduction to Azure AI Development
2. Getting Started with Azure App Service
3. Configuring Web Apps
4. Discovering Azure Functions

UNIT 02

DEVELOPING AZURE SOLUTIONS

1. Handling Unstructured Data
2. Ensuring Data Availability
3. Containerized Solutions
4. Comparing Container Services
5. Implementing Container Apps

UNIT 03

ADVANCED CONCEPTS AND BEST PRACTICES

1. Enhancing Security
2. Securing App Configurations
3. Exploring API Management
4. Advanced Capabilities
5. Summary

COURSE 7 Getting Started With AI Development

UNIT 01

FOUNDATIONS OF AZURE AI SERVICES

1. Getting Started with Azure AI Services
2. Enabling Azure AI Services
3. Deploying Azure AI Containers
4. Getting Started with Azure AI Language

UNIT 02

NATURAL LANGUAGE PROCESSING

1. Building Natural Language Solutions
2. Conversational Language Understanding
4. Capabilities of CLU

UNIT 03

RETRIEVAL AUGMENTED GENERATION

1. Retrieving Information with Azure AI Search
2. RAG Capabilities in Microsoft Azure
3. Introduction to Building Natural Language Solutions

UNIT 04

IMPLEMENTING GENERATIVE AI

1. Getting Started with Azure OpenAI
2. Fine-tuning Effective Prompts
3. Generating Code with AI
4. Responsible Generative AI
5. Summary

Eligibility

Eligibility Criteria

Details

English Language	A good command of the English language is required, as all course content, assignments, and communication are conducted in English.
Prior Knowledge	Not required. Anyone can enroll.
Recommended Background	Basic IT awareness is helpful but not mandatory.
Learning Format	Online with mentorship classes, self-paced and browser based (no downloads).
Assessment Method	Pass or fail assignments.
Hardware with Internet Access	Laptop, Tablet or Smartphone.
Study Program Duration	The Edukamu Learning Management System (LMS) remains accessible for 12 months to complete the Microdegree Study Program. On average, students finish their chosen Microdegree within 3–5 months, depending on the specific program selected.

For more information about the admission process, please contact:

Exclusive and Authorised Microdegree Program Partner



3 The Crescent West
Westway Office Park, Westville
Durban, 3629
South Africa

+27 (0) 31 275 9060 | +27 (0) 82 065 5650

mdp@pacisys.co.za

www.pacisys.co.za