



CAIMC®

CERTIFIED AI MEDICAL CODER

AI CERTIFICATION PROGRAM: ELEVATE YOUR CAREER IN MEDICAL CODING

CAIMC® course is designed to instruct and equip medical coders with the necessary skills for incorporating artificial intelligence (AI) into medical coding practices. Gain an understanding of AI's role in automating coding tasks, enhancing coding accuracy, optimizing Revenue Cycle Management (RCM), and detecting instances of fraud and abuse. Additionally, they will acquire the expertise to leverage AI in developing innovative coding solutions and enhancing the overall efficiency of the coding process

ProProfs



Master AI and Learn how to Develop and Fine-Tune LLMs Medical Coding and Billing

Medical Coders Increase your income and quality X 5 times

With CAIMC® Training and Certification

- » **No tech Skills needed**
- » **No Prior AI knowledge required**
- » **Must have Medical Coding knowledge**
- » **Discover AI methods that will boost your productivity**
- » **HIPAA and ethical considerations in AI**
- » **Stay a head digitally**
- » **Develop your own AI Medical Coding Tool**
- » **Fine-tune existing LLMs**
- » **Become an AI Medical Coding Consultant**
- » **Upgrade your career to next level**

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Artificial Intelligence

CAIMC®



"The Future of Medical Coding AI and Human Intelligence in Harmony"

01

Advance your
healthcare
coding career
with AI.

Embrace the future of healthcare by becoming a Certified AI Medical Coder (CAIMC®). Harness the power of AI to enhance coding accuracy, efficiency, and productivity, putting you at the forefront of this rapidly evolving field. Stay ahead of the curve, expand your career opportunities, and increase your earning potential with this in-demand certification. Join the ranks of CAIMC®s and revolutionize healthcare coding.

02

Enhance
accuracy,
embrace
technology

“

PMBAUSA's mission is to deliver accessible, affordable, and industry-relevant education, specifically designed to empower the Medical Coding and Revenue Cycle Management (RCM) workforce for growth and development.

“

Received the 'Emerging AI Medical Coding Training Academy' award from Dr. Mark Burns at the Global Business Summit 2025.

03

Navigate
future coding
and RCM by AI



UNITED STATES
GLOBAL COMMERCE & INDUSTRY

CAIMC® COURSE HIGHLIGHTS

AI Integration in Medical Coding

Comprehensive insights into the integration of Artificial Intelligence with traditional medical coding practices.

Cutting-Edge Coding Technologies

Exposure to the latest technologies and software in AI-enhanced medical coding.

Practical AI Applications

Hands-on experience with real-world scenarios, applying AI tools in medical coding tasks.

Data Accuracy and Efficiency

Focus on how AI improves data accuracy and operational efficiency in coding processes.

Ethical AI Use

Understanding the ethical considerations and best practices in applying AI within medical coding.

Industry Compliance and Standards

Training on maintaining compliance with healthcare regulations and coding standards in an AI-driven environment.

Career Advancement Opportunities

Insights into the expanding career opportunities and roles for AI-skilled medical coders.

Expert-Led Instruction

Learning from experienced professionals and experts in AI and medical coding fields.

Develop AI Medical Coding Tool

Building a Smart Medical Coding Agent using Gemini 2.0 and LangChain

AI Medical Coding Tool Fine-Tuning

Fine-Tune AI Medical Coding Tools for Accuracy and ensure HIPAA/GDPR Compliance

WHY CAIMC® FOR MEDICAL CODERS AND MEDICAL BILLERS

- **Stay ahead of the curve:**
The healthcare industry is rapidly adopting AI-powered coding tools, and CAIMC®s will be in high demand to operate and manage these systems.
- **Enhance coding accuracy:**
AI can help to identify and correct coding errors, which can lead to increased reimbursement rates and reduced risk of audits.
- **Improve efficiency:**
AI can automate many of the time-consuming tasks associated with medical coding, freeing up coders and billers to focus on more complex tasks.
- **Increase earning potential:**
CAIMC®s are in high demand, and they can command higher salaries than their non-certified counterparts.
- **Expand career opportunities:**
Becoming a CAIMC® can open up new career opportunities in healthcare IT, consulting, and education.

HERE ARE SOME ADDITIONAL BENEFITS OF CAIMC® FOR MEDICAL CODERS AND MEDICAL BILLERS:

- **Gain a competitive edge:**
Employers are increasingly looking for medical coders and billers with AI skills, so becoming a CAIMC® can give you a competitive edge in the job market.
- **Future-proof your career:**
The healthcare industry is constantly evolving, and AI is playing an increasingly important role. Becoming a CAIMC® can help to future-proof your career and ensure that you are able to adapt to the changing landscape of healthcare.
- **Make a difference in patient care:**
Accurate coding is essential for ensuring that patients receive the care they need and that providers are reimbursed correctly. By becoming a CAIMC®, you can play a vital role in improving the quality of patient care.

PROGRAM DETAILS

Eligibility

- ✓ **Must be a Certified Medical Coder or Medical Biller, or possess knowledge in medical coding and billing.**

Mode of Training: Online, Selfpaced

Course Duration: 80 Hours



The CAIMC® Exam is administered online via our secure Learning Management System. Our primary focus is not on students memorizing every detail but on AI Medical Coders effectively using all available resources to find solutions. We expect this same approach to be applied during the examination.

The Exam is conveniently accessible online, allowing you to take it from any computer or location, 24/7. Upon enrollment, you will receive your login information via email. You will have a 45-day window within which to complete the Exam.

**Training and Certification Fees cover
the cost of one free retake.**

\$324

THE CAIMC® SYLLABUS

Module 1:

AI Introduction

Generative AI
CAC and AI Medical Coding Difference
What is ChatGPT, explore the world of AI
Will AI replace Medical Coders?
Types of AI used in Medical Coding
Data Governance
Types of AI used in RCM

Module 2:

AI in Detail

The Fundamentals of Machine Learning in the Medical Coding Process
Deep Learning Model
Difference between ML and DL
Decision Trees and Random Forests in AI
SVM-Hyperplane for Medical Coding Accuracy
Rule Based NLP – Medical Coding Examples
Diabetes Coding – ML and DL Example
Generative AI
NLP Examples-Risk Adjustment Coding Examples

Module 3:

AI and HIPAA

Ensuring HIPAA Compliance: The Intersection of AI and Medical Coding
Ethical Considerations in AI Medical Coding and Billing
HIPAA Checklist for AI Integration in Medical Coding and Billing"
HIPAA-Compliant Medical Coding with AI: Best Practices
PHI
AMA AI Principles
Data Security
Data Protection
Use Case



Module 4:

AI Prompts for Medical Coding

Tokenization in AI Medical Coding
Prompt Guide for Medical Coding
ChatGPT Prompts for Medical Coding:
Prompts for ICD-10-CM Coding
T5 for Accuracy
XG-Boost

Module 5:

AI in Clinical Documentation

AI in Clinical Documentation
How AI Learns from patterns and enhances accuracy
Emerging Applications in Medical Coding and RCM
SNOMED-CT
SNOMED and ICD-10 Difference
SNOMED-CT Practice
SNOMED and AI Medical Coding

Module 6:

Developing AI Driven Medical Coding Tool

Stages of AI Driven Medical Coding Tool Development
Development Phase
Data Prepping
Choosing the Right AI-Powered Medical Coding Tools and Software
AI in HCC Coding- Risk Adjustment
Who Provides data for LLMs
Medical Coding Specialties Impacted by AI



Module 7:

AI Impact on RCM

- AI Powered Medical Coding Tools
- CPT Coding Prompts
- Radiology AI Coding
- Pathology AI Coding
- Case Studies - ICD-10-CM and CPT
- ICD-10-CM - Hypertension Follow-up - Underdosing
- Old MI
- Surgery - Cystoscopy
- Vomiting's due to Gastric Bypass

Module 8:

How to develop AI Medical Coding Tool

- Advanced Learning Module
- Artificial Stupidity
- Priming
- Chain of Thoughts (CoT)
- Role Prompting
- Directional Stimulus (DS) Prompting
- Recursive Criticism and Improvement (RCI) Prompting
- Self-Refinement Prompting
- Reverse Prompt Engineering

Module 9:

Retrieval-Augmented Generation (RAG)

- Optimizing AI with Fine-Tuning
- LLM Hallucinations
- AI Prompts
- ChatGPT Cheat Sheet
- AMA AI Principles
- Zero shot and Fine shot prompting in Medical Coding
- NLP Hands-on

Module 10:

Sentiment Analysis in Medical Coding

How sentiment analysis aids medical coding accuracy

Examples

Sentiment Analysis Tools

Fine-Tune GPT4

Custom GPT Model for Medical Coding

Develop Custom Model

Fine-Tune for Accuracy

Example Use Case

Module 11:

Amazon Comprehend Medical

Why Amazon Comprehend Medical

Named Entity Recognition (NER)

How to create ACM for NER

Role of NER in HCC Coding

Custom GPT4

How to Customize GPT4

Case Study: Enhancing Medical Coding Accuracy with Custom GPT-4

Implementation

Module 12:

Data for Fine-Tuning

ICD-10-CM Data for Fine-Tuning

CPT Data for Fine-Tuning

DII Medical Recods

De-identification Techniques

Example

RAG - Retrieval-Augmented Generation

RAG Approach

Gemini, BERT Open Source APIs

Building a Smart Medical Coding Agent using Gemini 2.0 and LangChain

COURSE OBJECTIVES

Upon completion of this course, students will be able to:



Define AI and explain its role in healthcare and medical coding



Identify the different types of AI used in medical coding



Understand the benefits and risks of using AI in medical coding



Apply AI-powered tools and software to improve their coding accuracy and efficiency



Develop and implement AI-based solutions to address common coding challenges



Evaluate the ethical and legal implications of using AI in medical coding



Develop AI Medical Coding Tool



Fine-Tune AI Medical Coding Tools for Accuracy

Students will be assessed on their knowledge of AI in medical coding concepts and principles through a combination of exams, quizzes, and assignments.

CAIMC® – Certified AI Medical Coder

A Valuable Credential for Medical Coders and Billers

The CAIMC® Certified AI Medical Coder course equips coders with the comprehensive knowledge and skills to effectively implement and manage AI-powered medical coding solutions. This certification positions coders at the forefront of medical coding advancements, enabling them to contribute significantly to the optimization of coding processes.

The Certified AI Medical Coder (CAIMC®) program offers a multitude of benefits, crucial for anyone looking to excel in the evolving field of medical coding. Firstly, understanding AI in medical coding significantly enhances job security, as this expertise is increasingly sought after.

Certified AI Medical Coders possess a unique adaptability to technological changes, setting them apart from peers who may lack such skills. This knowledge is not just a testament to their adaptability but also to their commitment to professional development and continuous learning. Furthermore, AI competency allows for increased efficiency in coding, leading to fewer errors and a smoother workflow.

This proficiency provides coders with a competitive advantage in the job market, showcasing a skill set that is both rare and in high demand. By staying current with AI trends in healthcare coding, coders can future-proof their careers, ensuring their relevance in an industry that is constantly evolving.

The precision that AI brings to coding translates to enhanced accuracy, better compliance, and reduced risks of audits. Moreover, expertise in AI coding opens the door to broader opportunities and new career paths within the realm of healthcare technology. Finally, coders knowledgeable in AI have the potential to assume leadership roles, becoming invaluable assets to their teams by leading and training others in these advanced technologies.

TESTIMONIALS

Nikhil

CPC, CPMB

The Certified AI Medical Coder course was transformative. It provided me with advanced skills in AI coding, greatly enhancing my efficiency. Post-certification, my job prospects have widened, and I feel well-equipped to tackle the future challenges in medical coding."

01

Dr Siddartha

BDS, CCS, CPC

"This course has been a turning point in my career. Learning about AI applications in medical coding has not only improved my accuracy but also increased my value in the healthcare sector. The hands-on approach was particularly beneficial."

02

Durga Prasad

CPMB

"Since completing the Certified AI Medical Coder course, I've seen remarkable improvements in our RCM process. The AI integration skills have significantly reduced coding errors and enhanced revenue cycle efficiency, contributing to the financial robustness of our healthcare facility."

03

"The CAIMC® course has been pivotal in refining our RCM operations. Understanding and applying AI in coding has dramatically improved claim accuracy and speed, reducing denials and enhancing overall revenue flow."

03

"As part of the RCM team, the AI coding skills acquired from the CAIMC® course have been invaluable. We've experienced a noticeable improvement in coding accuracy and a reduction in turnaround time, boosting our financial performance."

04

"The CAIMC® course has revolutionized our approach to medical coding in RCM. The AI-driven coding techniques I learned have enabled us to process claims more efficiently, resulting in quicker reimbursements and a healthier revenue cycle."

05

CERTIFICATION



Disclaimer: CAIMC® is designed to assist and accelerate medical coding processes. A human-in-the-loop is always recommended for accuracy, compliance, and safe application in healthcare environments.



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