



# HEALTHCARE AND HEALTH SCIENCES

## PATHWAY COACHES



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## Artificial Intelligence at Work

### AI in Healthcare and Health Sciences

Artificial Intelligence (AI) involves teaching computers to think and learn like humans. AI algorithms, inspired by the way humans solve problems, enable computers to analyze data, recognize patterns, and make decisions autonomously. In healthcare and health sciences, AI is revolutionizing various aspects, from diagnosing diseases and personalizing treatment plans to optimizing administrative workflows and improving patient care outcomes. AI can be used to look at pictures of your body, like X-rays, and tell if there's something wrong. AI can also help doctors make better decisions for each patient.

### Why AI Matters for the Future of Health

1. Improved Patient Care: AI technologies enhance diagnostic accuracy, optimize treatment outcomes, and improve patient outcomes overall.
2. Enhanced Efficiency: AI streamlines workflows and allows healthcare providers to deliver more personalized and efficient care.
3. Future Career Opportunities: AI is reshaping roles and creating new career opportunities for students interested in AI-related fields.

### How Employers Are Using AI

- Scientists are using machine learning tools to mine data for insights.
- AI-powered chatbots and virtual assistants provide patients with personalized health advice and medication reminders.
- Surgical robots, driven by AI, assist surgeons during procedures, enhancing precision and reducing the risk of errors.
- AI algorithms can analyze medical images, such as X-rays and MRIs, with remarkable accuracy, helping doctors detect abnormalities and diagnose conditions earlier.

### AI Skills to Hone

- Programming Languages and Libraries like Python, R, Scikit-learn, Keras, and TensorFlow
- Virtual Nursing Platforms offered by Artsight and Caregility
- Deep Learning Architecture and Frameworks like Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs)
- Clinical Documentation using ChatGPT and Nuance DAX

### How to Prepare for the AI-Centered Workforce

- AI Fundamentals and Applications Certificate
- AI in Public Health and Healthcare Certificate
- Experiential Learning Opportunities: AI Scholars and AI Career Treks