UF’s AI Initiative

Presentation to UF Senate
January 20, 2022
Joe Glover
SO, BEFORE THE INTERNET, YOU HAD TO GO TO THE LIBRARY TO READ A TWEET?
UF’s Systemic Transformation to become an AI University

Transformational technology in virtually every discipline
Will allow UF to tackle large and challenging real-world problems
Every college can “buy in” to the initiative
Puts UF and State of Florida in a unique position nationally
AI Across the Curriculum
• Unique branding opportunity
• Benefits our students in all their majors
48 new AI hires so far

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AREAS OF RESEARCH INTEREST:
- Digital Twins, Laser Scanning, Computer Vision, Machine Learning

RESEARCH NARRATIVE:
- Dr. Agapaki has academic and industry experience in data analytics, AI applications in civil engineering, infrastructure computer vision, Digital Twinning and automation in construction. In particular, her expertise is in geometric processing of point cloud data (segmentation, object detection, fitting 3D representations) for the generation of geometric Digital Twins of the Built Environment, object recognition using photogrammetry (RGB, RGB-D images, synthetic image rendering), data collection and data requirements specification for applications of deep learning methods, and automated classification of CAO models in PLM systems.

COLLABORATION INTERESTS:
- I am hoping for collaborations with the Herbert Wertheim College of Engineering. Specifically, I would like to collaborate with faculty from the Computer Science and Civil Engineering departments.

PERSONAL OTHER INTERESTS:
- I am a certified Yoga instructor and love walking in nature with my dog.
“If I gave you an AI supercomputer, what would you do with it?”
“We will teach AI Across the Curriculum”
The Final Report

The mandate of the National Security Commission on Artificial Intelligence (NSCAI) is to make recommendations to the President and Congress to “advance the development of artificial intelligence, machine learning, and associated technologies to comprehensively address the national security and defense needs of the United States.”

This Final Report presents the NSCAI’s strategy for winning the artificial intelligence era. The 16 chapters in the Main Report provide topline conclusions and recommendations. The accompanying Blueprints for Action outline more detailed steps that the U.S. Government should take to implement the recommendations.
NOW, THEREFORE, BE IT RESOLVED that the undersigned universities establish this Agreement to cooperate, on a voluntary basis, in developing educational, training, and workforce development programs in Artificial Intelligence and Data Science by:

- Sharing educational resources, such as curricular materials, certificate and degree program structures, and online presentations of seminars and courses
- Promoting regional hackathons
- Promoting faculty, staff, and student workshops in Artificial Intelligence and Data Science
- Sharing best practices among career resource centers
- Promoting this effort as a cooperative venture of SEC universities for the purpose of reputational enhancement and engaging with state and/or federal agencies
- Seeking joint partnerships with industry
Leadership for the FUTURE

Artificial Intelligence is more than just the next wave of high-tech – it is transforming nearly every sector of the economy. The applications of AI are limitless, and whatever your interest level you can increase your working knowledge of AI through professional development courses offered by the University of Florida.

Artificial Intelligence Packages

The professional development courses are divided into two categories, foundation courses and focus areas. Foundation courses provide the basic knowledge of AI while focus areas strengthen your knowledge of AI in a specified area. Each package has 1-hour, 4-hour and 15-hour course options. Learners who complete a set of three 15-hour courses earn an Artificial Intelligence Micro-Credential from the University of Florida.
What is AI Central?

AI Central is a strategic public-private-academic economic development initiative to establish North Central Florida as the national and global center for artificial intelligence (AI) and innovation.

The Future is Now.

Artificial intelligence is more than just the next wave of high-tech: it is the fuel for the fourth industrial revolution. Using AI to analyze massive amounts of data has already dramatically affected communications, accounting, finance, transportation, medicine, agriculture and more.

Why Gainesville?

AI Central started with the University of Florida’s major, long-term investment in world-class research infrastructure, cutting-edge research and a transformational approach to curriculum. Under the proud leadership of the Greater Gainesville Chamber of Commerce, AI Central has the opportunity to establish a potentially powerful economic development program and create a national AI hub here in Greater Gainesville.

70% of companies will be using at least one type of AI by 2030 (McKinsey Global Institute)

33% estimated annual growth rate of AI from 2021 to 2027 (Fortune Business Insights)

26% estimated potential GDP boost for local economies by 2030 (PWC)
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