

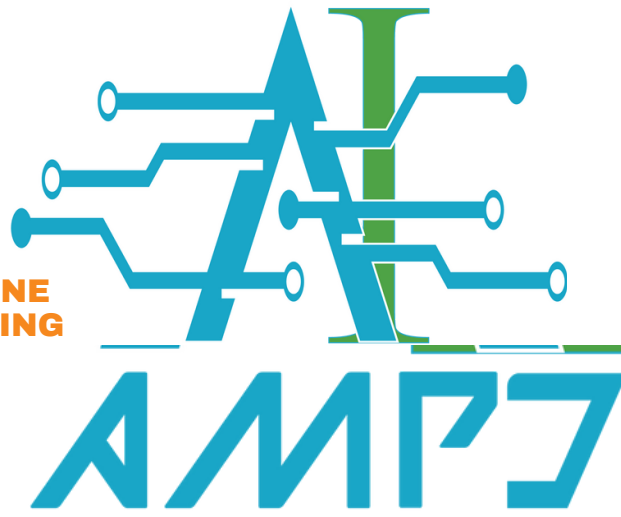


**ARTIFICIAL
INTELLIGENCE**

**DATA
SCIENCE**

**MACHINE
LEARNING**

**PYTHON
PROGRAMMING**



**EMPOWERING FUTURE
INTELLIGENCE**

INTRODUCTIONS

Jerral Horton
Program Administrator
AMPD (AI Learning Institutes)
Okaloosa County School District

Steve Horton
Deputy Superintendent
Okaloosa County School District

April Branscome
CTE Program Director
Okaloosa County School District

Dottie Holland
AI Teacher
Choctawhatchee High School

LaTavia Deliford
8th grade AI Teacher
Destin Middle School

AI THE PRESENT AND THE FUTURE

You are probably using AI at your workplace and home and you don't even know it.

- Alexa
- Roomba
- Google
- Amazon

UF Agriculture Engineer Yiannis Ampatzidis has developed a low cost smart tree-crop sprayer that can automatically detect citrus trees, calculate their height, leaf density, and count fruit. Farmers can target their spray more efficiently so it lands on the trees and leaves. It reduces chemical use by about 30% thus saving money and the environment.



CAREERS

- AI is being embedded in the workforce.
- Employees are being retrained to use AI to make data-driven decisions.
- Companies are hiring Data Scientists, Gaming Engineers, and Computer Scientists to collect and analyze data.
- Indeed.com search yielded over 17,000 jobs locally and all over the world. Jobs were in person, remote or hybrid.
- Jobs:
 - Capitol One- helping businesses be successful using data collection and analysis for trends in sales.
 - Patrick J McGovern Foundation- development, deployment, and maintenance of AI products.
 - Slim Chickens- using data to influence decisions made by leadership across the brand.
 - College Board- collect and analyze data regarding test delivery and test development.
 - Big Fish Games- research and development of mobile games.
 - Prize Picks- Sports; innovative technology focused on increasing sports engagement for fantasy sports games.
 - Amazon- Amazon Web Services- 119 AI full time positions and 351 Data Science positions.
 - Knowesis-Hurlburt Field- support the military initiative; think tank and defense contractor.
 - Booz Allen Hamilton- offices in Fort Walton Beach and Pensacola- leader in providing AI services for the federal government and commercial cybersecurity. 15 local jobs.
- Salary range- \$60,000-\$192,000
- Education- High school diploma/GED - PhD

CURRENT ENROLLMENT 22-23 SY

- 308 Students
- 8 Middle schools
- 1 High school

CERTIFICATIONS

- Knowledge Pillars Python Coding Specialist
- Can be taken every 3 times
- Every 21 days
- 3 middle schools- **Bruner, Okaloosa STEMM academy, and Ruckel** gave the exam to 103 8th grade students. 63 students passed for a **61%** pass rate.
- Choctawhatchee High School gave the exam to 63 students. 30 students passed for a **48%** pass rate.
- We have earned **81** certifications this year and the Triumph deliverable was **50**.
- **Three** teachers have passed the Knowledge pillars certification.



CONSTRUCTION/RENOVATIONS

- Crestview High School- Renovation of the Engineering lab to an AI Lab. We have met with county officials and Titan Technologies to submit a Pre-GMP. Renovations should start as soon as school is out for summer.
- Okaloosa STEMM Academy- Working with the principal and teacher to replace outdated classroom furniture.
- Destin Elementary School- Working with principal to establish an AI/STEMM program for 4th grade students to attend weekly. Latavia Deliford, AI teacher at Destin Middle school, is working on curriculum/STEM activities.
- Ruckel Middle School- Working with STEM teacher- Mr. Alan Anderson to renovate STEM classroom. Mr. Anderson teaches the 6th and 7th grade feeder courses to the 8th grade AI track.

FLDOE UPDATE

- Standards were submitted to the FLDOE in June 2022.
- On February 27, I received an email that the FLDOE is recommending approval of the Data Science and Machine Learning to be added to the curriculum framework inventory for the 23-24 SY.

REGISTRATION 23-24 SY

- **242** students registered for the first year programming course.
- **25** students are registered for the second year data science course.
- Two middle schools have not completed registration.

SUMMER 2023

- Latavia Deliford, Destin Middle school teacher will be developing a curriculum manual for the first year MS and HS Programming course as well as finalizing the curriculum for the Destin Elementary STEM program.
- Dottie Holland, Choctawhatchee High School teacher will be working on the the second year HS Data Science curriculum and working with Tim Sexton, Crestview High School to solidify the first and second year program for the high schools.
- All teachers will attend a professional development in July 2023 facilitated by Latavia Deliford, Dottie Holland, Jared Carter(UF consultant) and UF Professor Dr. Nancy Ruzycski.
- We have been in discussions with Brian Mitchell, AFRL Education consultant about a collaboration between the AI teachers and AFRL engineers. Ideas include guest speakers, professional development, and internships.