

FDL is Tackling Space Exploration Using Intel® AI Technologies

Frontier Development Lab (FDL) is a public private partnership between NASA, the SETI Institute, Trillium Technologies, and commercial AI partners. The partnership helps push the frontiers of research and solve many of humanity's greatest challenges such as planetary science, disaster management, astrophysics, and astronaut health. Intel® Xeon® processors and a software portfolio of tools, libraries, and framework optimizations for end-to-end AI workflows powered by Intel® oneAPI tools, are helping FDL solve the challenges associated with deep space exploration. Recent innovations such as Open Federated Learning and Intel® Software Guard Extensions, are further helping FDL understand how space radiation will affect astronauts, particularly on deep space exploration.

Our partnership with Intel AI gives us access not only to the cutting-edge hardware and software tools, but also the technical expertise on a broad range of topics, including algorithm selection, data optimization, research direction, and effective ways of applying the technology."

**James Parr, Director,
Frontier Development
Lab**

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