

# Nexcepta

*driving creative solutions through innovation*



UB  
University  
at Buffalo

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# Nexcepta Overview



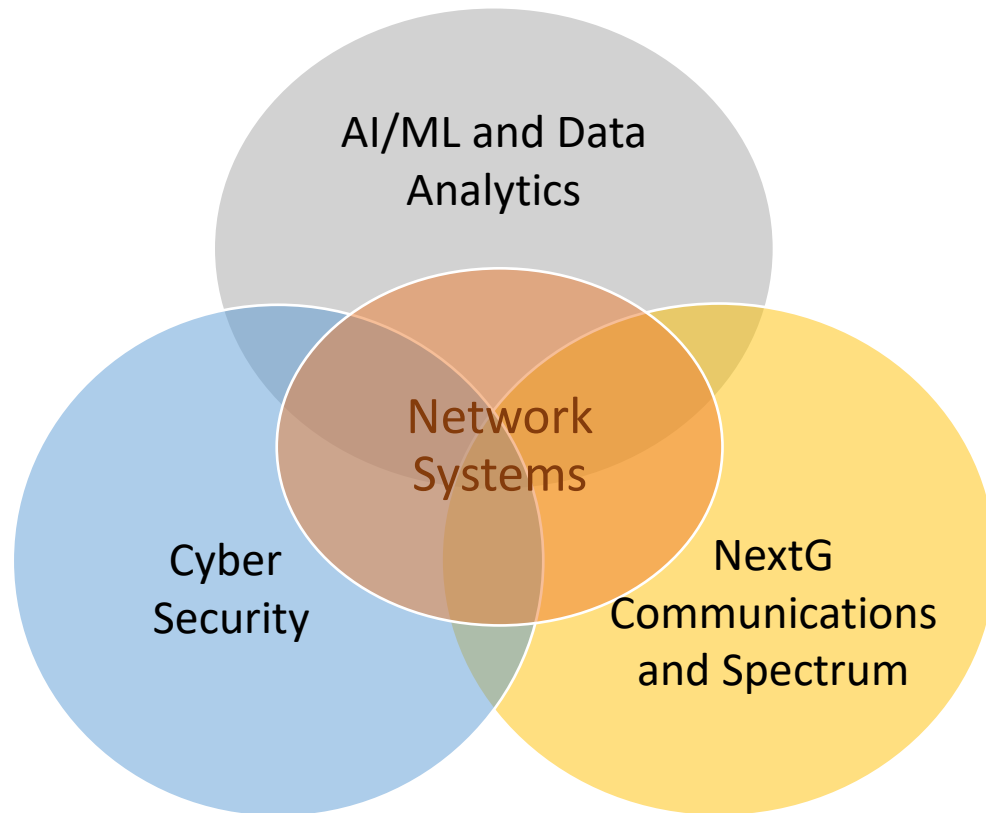
- Founded by former government and Industry research scientists and engineers.
- Headquartered in Gaithersburg, MD (Washington DC Metro Area).
- Developing creative technologies for high-impact operational transition and commercialization.

- **Technical Expertise**

- AI/ML applications in Computer vision, Audio and Speech, RF Signal Processing and NLP
- Adversarial ML and Security of AI/ML
- Generative AI
- High Performance and Edge Computing
- Cyber Security

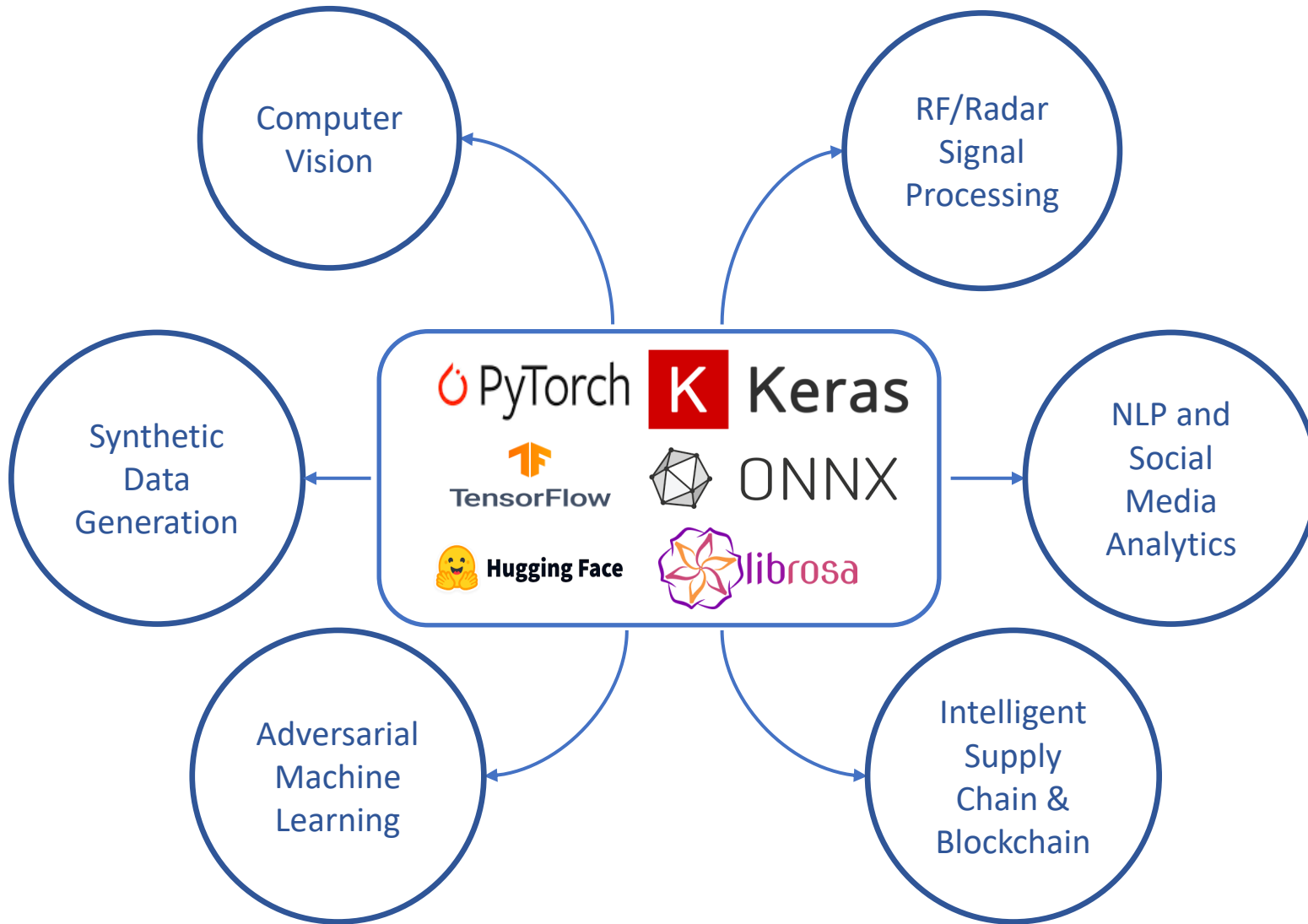


# Core Technology Areas



- Management team has over 100 years of combined experience in the technology areas.
- **Defense:** Innovative portfolio of AI/ML enabled solutions for Computer Vision, Speech processing, RF/Radar signal processing, Natural Language Processing (NLP) and Cybersecurity.
- **Commercial:** Transformative open-source solutions that unleash the full potential of 5G and 6G through O-RAN and vRAN.
- Principal Scientist, Dr. Kemal Davaslioglu was a Principal Investigator in multiple BAA and SBIR/STTR projects including **DeepFake detection**.

# AI/ML and Data Analytics



AI/ML Frameworks

Computer Vision, Audio, RF, NLP, and Social Media Analytics

Adversarial Machine Learning

Signals Intelligence and Digital Forensics

Synthetic Data Generation

Intelligent Supply Chain and Blockchain

## Professor Siwei Lyu, Fellow of IEEE and IAPR

- SUNY Empire Innovation Professor, Department of Computer Science and Engineering
- Director, University of Buffalo Media Forensic Lab (UB MDFL)
- Co-Director, Center for Information Integrity (CII)
- School of Engineering and Applied Sciences
- University at Buffalo, State University of New York



## Research Areas:

- Digital Media Forensics
- Computer Vision
- Machine Learning

## Related Capabilities:

- Digital Forensics
- Voice conversion
- Speech Style Transfer
- DeepFake Video Dataset Generation (Image, Audio, Video).

