



CAREERS AND OPPORTUNITIES IN

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# **ARTIFICIAL INTELLIGENCE**



**01**

**OVERVIEW  
OF AI**

**02**

**AI-RELATED  
DISCIPLINES**

**03**

**RISE OF THE  
MACHINES**

**04**

**THE AI  
REVOLUTION**

**05**

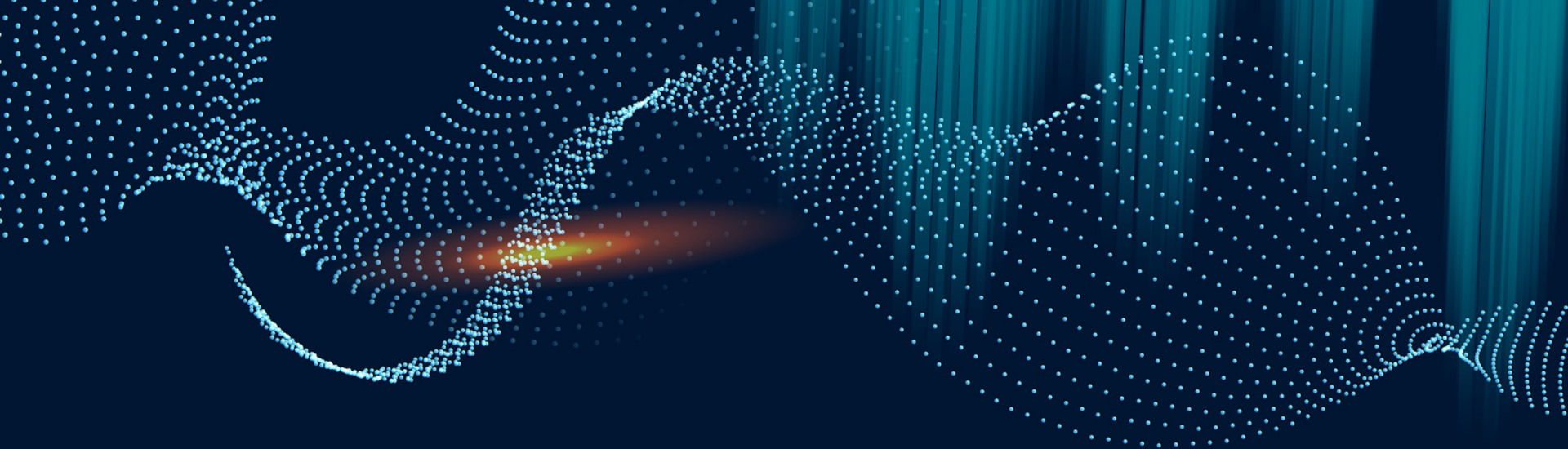
**CAREERS AND  
OPPORTUNITIES**

**06**

**THE FUTURE  
OF AI**

**“A computer would  
deserve to be called  
intelligent if it could  
deceive a human into  
believing that it was  
human.”**

—Alan Turing



**01**

**OVERVIEW OF AI**

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# WHAT IS ARTIFICIAL INTELLIGENCE?

SIMULATION OF HUMAN BEHAVIOUR IN A MACHINE

- Think like a human
- Act like a human
- Actions give the best outcome

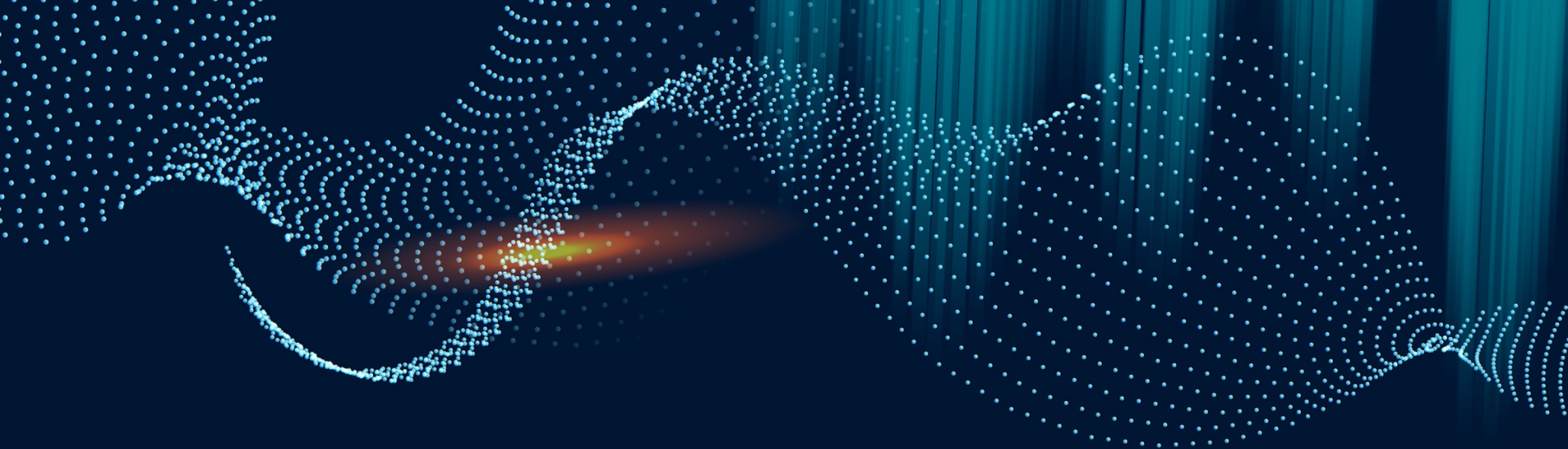


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# MACHINE LEARNING

- TRAINING
- ADJUSTING BEHAVIOR
- EVALUATING
- MAY REQUIRE HUMAN SUPERVISION





**02**

**AI-RELATED  
DISCIPLINES**

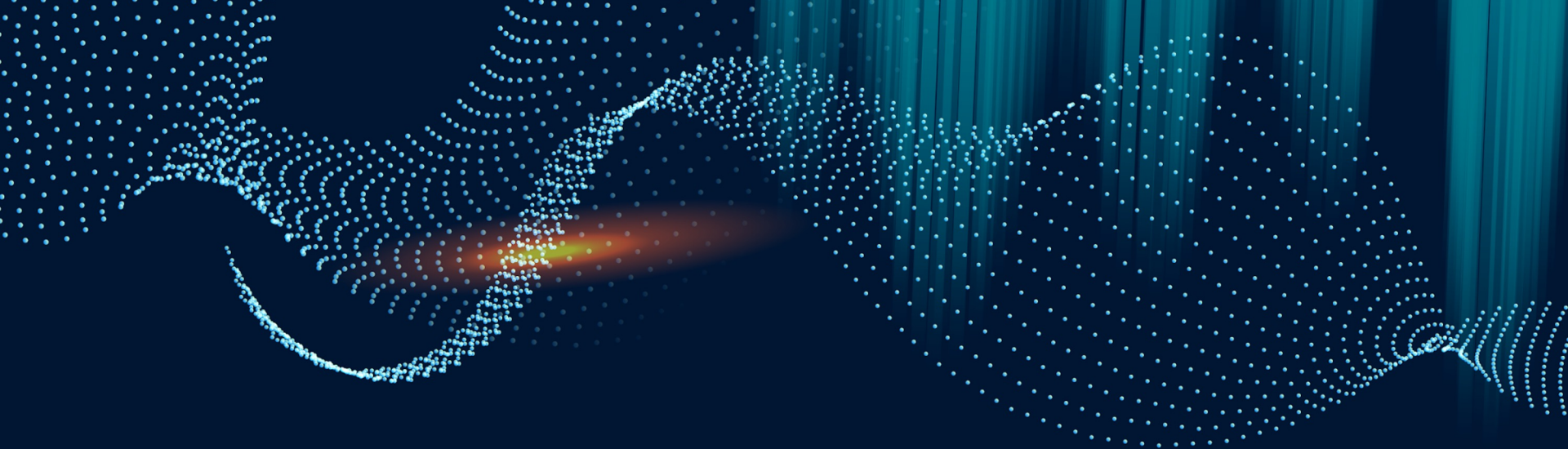
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# FOUNDATIONS OF AI

- NEUROSCIENCE
- LINGUISTICS
- PSYCHOLOGY
- PHILOSOPHY
- MATHEMATICS
- COMPUTER ENGINEERING







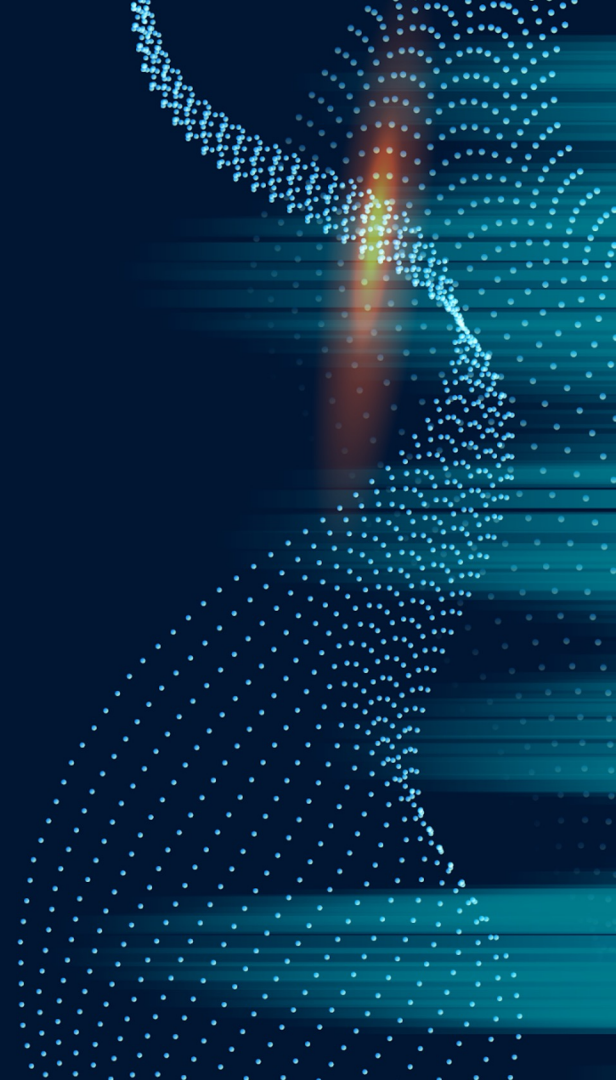
**03**

**RISE OF THE  
MACHINES**

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# FEARS AND CONCERNS

- WILL AI BECOME SMARTER THAN ME?
- WILL ROBOTS TAKE MY JOB ?
- WILL ROBOTS REVOLT AGAINST HUMANS?
- MISUSE OF THE TECHNOLOGY?

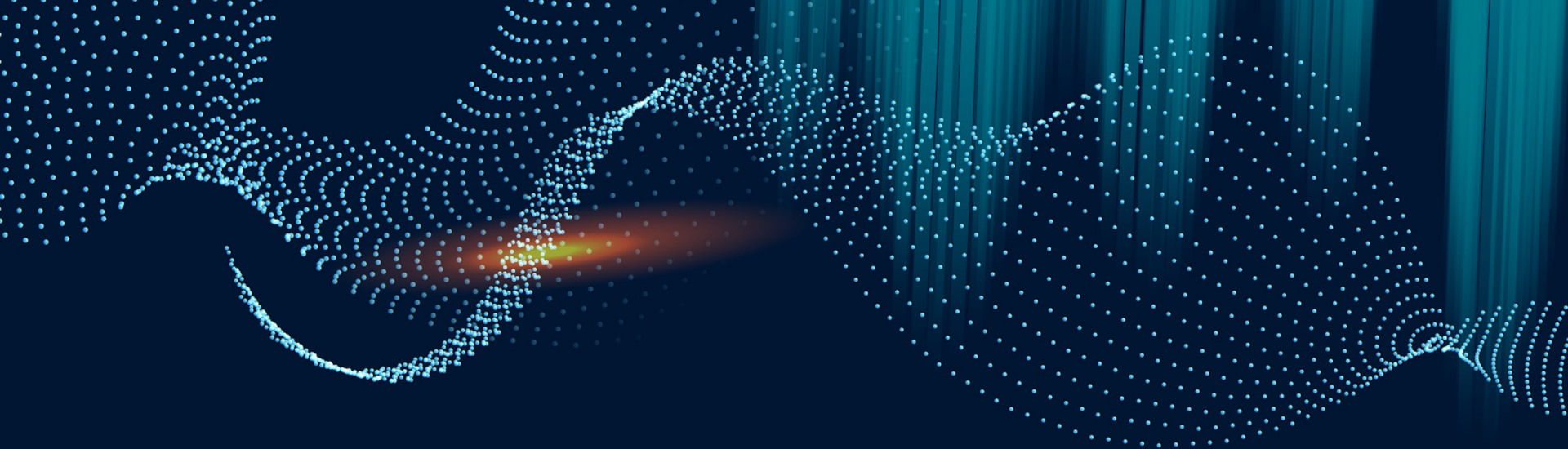


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# AI AS A TOOL

- UNDERSTAND THE TECHNOLOGY
- KNOW ITS CAPABILITIES AND LIMITATIONS
- BECOME CURRENT WITH YOUR SKILLS





**04**

**THE AI  
REVOLUTION**

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# CONTRIBUTORS

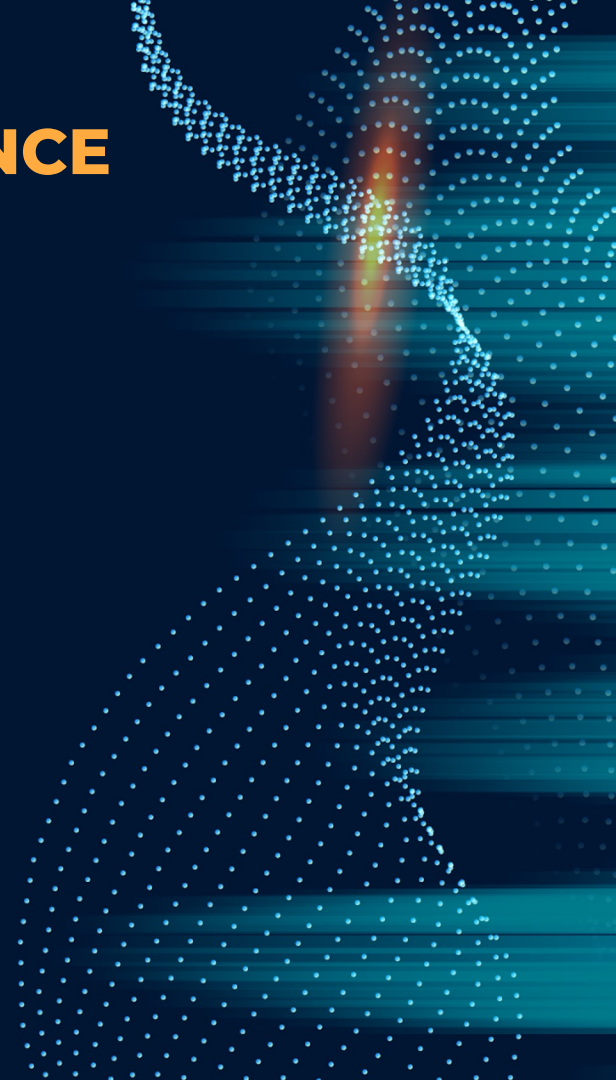
- OPTIMIZED HARDWARE
- PROCESSING POWER
- DATA AVAILABILITY

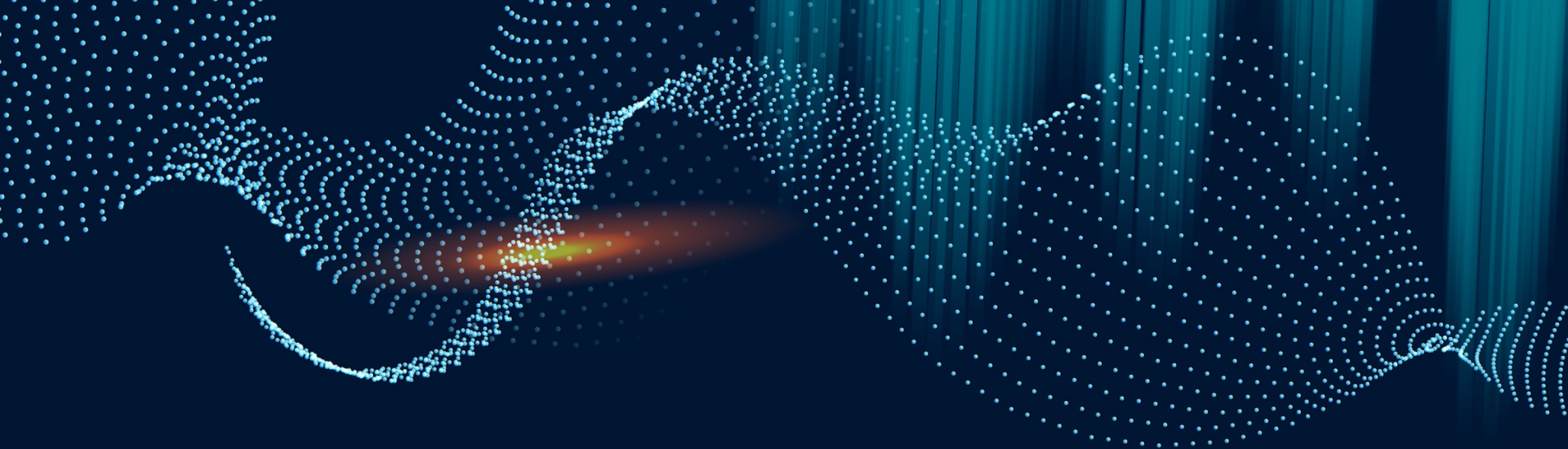


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# USES OF ARTIFICIAL INTELLIGENCE

- ROBOTICS
- MEDICAL FIELD / HEALTH CARE
- EDUCATION
- AUTOMOTIVE INDUSTRY
- E-COMMERCE
- MARKETING
- ENTERTAINMENT





**05**

**CAREERS AND  
OPPORTUNITIES**

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# DATA ANALYSIS

- THE AGE OF BIG DATA
- DATA PROCESSING
- DATA MINING
- IDENTIFYING ANOMALIES
- PREDICTIVE ANALYSIS
- APPLICATIONS IN BANKING / FINANCIAL SECTOR
- APPLICATIONS IN ENFORCEMENT AGENCIES
- APPLICATIONS IN USER EXPERIENCE ON THE INTERNET

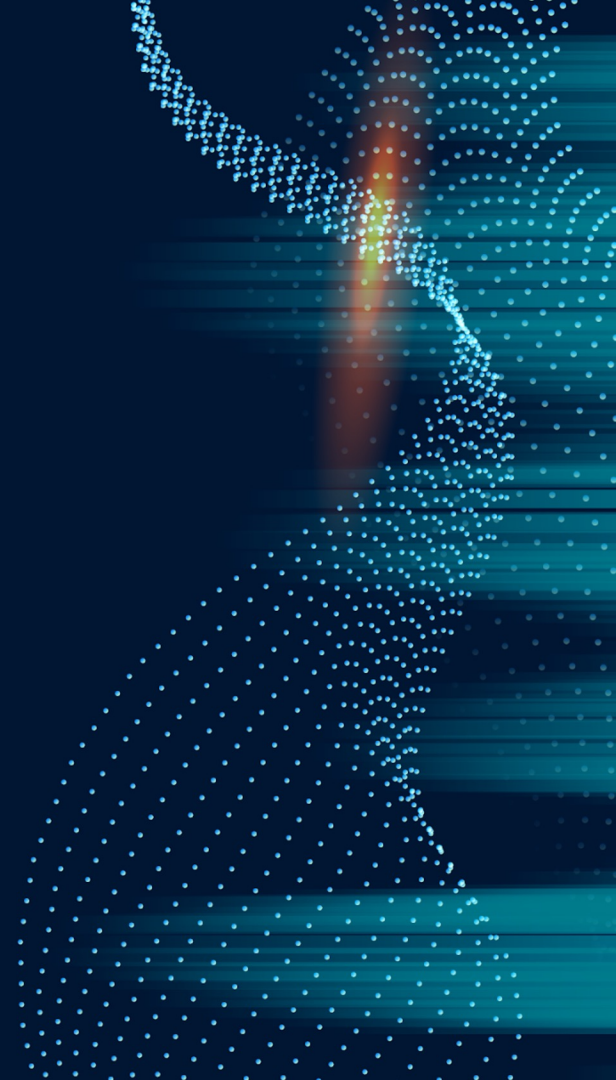




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# COMPUTER VISION

- REPLICATING THE HUMAN VISUAL SYSTEM IN A MACHINE
- IMAGE ENHANCEMENT
- IMAGE PROCESSING
- IMAGE UNDERSTANDING
- IMAGE INTERPRETATION
- APPLICATIONS IN MEDICAL FIELD
- APPLICATIONS IN SATELLITE IMAGERY AND ASTRONOMY

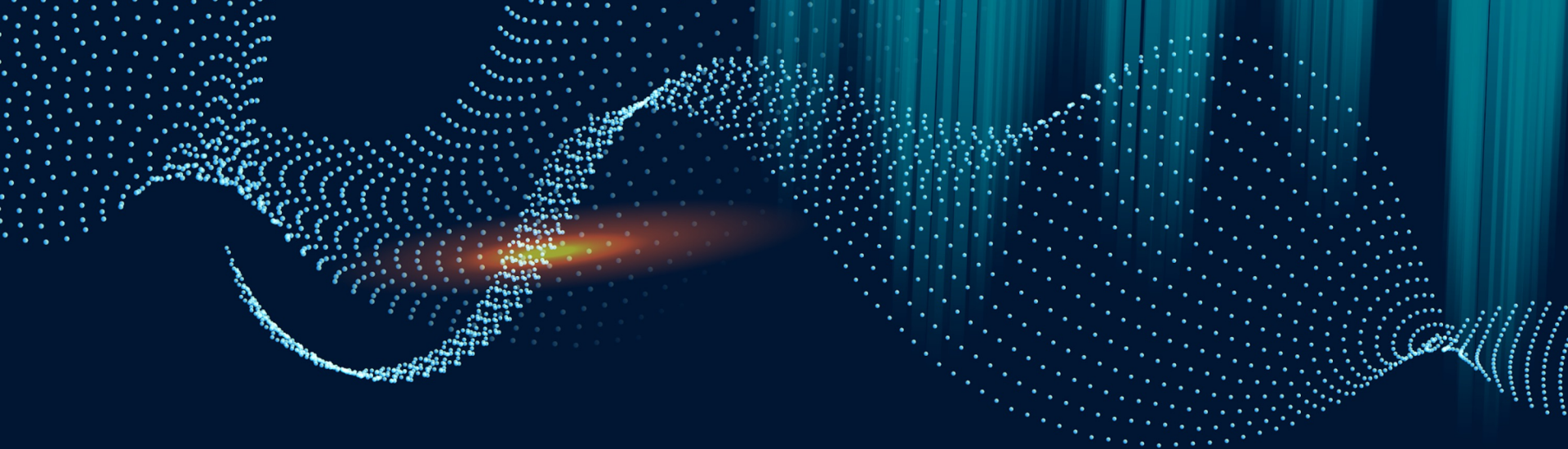


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# NATURAL LANGUAGE PROCESSING

- ANALYSIS, UNDERSTANDING AND REPRODUCTION OF HUMAN LANGUAGE.
- TEXT AND SPEECH
- APPLICATIONS IN CHAT BOTS AND SMART ASSISTANTS





**06**

**THE FUTURE  
OF AI**

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# THE FUTURE OF AI

- OPTIMIZING AI SYSTEMS
- GENERAL AI SYSTEMS
- REGULATION
- ADDRESSING ETHICAL CONCERNS





**THE END**

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QUESTIONS?