ATC
ATHENS TECHNOLOGY CENTER

How ATC delivers impact across industries

From smarter content processing to proactive healthcare insights, this infographic showcases how ATC applies cutting-edge AI to solve real problems — not in theory, but in production.

Each solution below reflects our hands-on experience developing, deploying, and refining AI systems across sectors including media, enterprise, public health, and cybersecurity.

Automated Summarization & Metadata Extraction

Challenge
Too much unstructured content, not enough time to organize it.

Solution
GenAI tools that summarize text, extract metadata (e.g. author, publisher), and apply contextual tags.

Impact
Helps editorial, research, and enterprise teams process high volumes of content more efficiently.

Applications
Editorial workflows, Research support, Enterprise reporting

Advanced NLP for Detection & Classification

Challenge
Hard-to-detect misinformation, bias, and AI hallucinations undermine trust in content.

Solution
Transformer-based models and LLMs detect hate speech, fake news, sentiment, and logical fallacies.

Impact
Supports automated classification and enhances content verification across platforms.

Applications
Content moderation, Sentiment analysis, Fact-checking and misinformation tracking

Conversational AI & Intelligent Assistants

Challenge
Users demand fast, multilingual, context-aware assistance — without scaling costs.

Solution
AI assistants powered by Retrieval-Augmented Generation (RAG) offer natural, real-time dialogue and data retrieval.

Impact
Enables digital assistants in support and education with minimal manual intervention.

Applications
Customer service, Coaching and training, Multilingual virtual support

OCR & Image-Based AI

Challenge
Valuable information is trapped in scanned documents, tables, or handwriting.

Solution
Vision-Language Models (VLMs) extract structured data from complex visual formats.

Impact
Helps legal, healthcare, and academic institutions digitize and search visual content with accuracy.

Applications
Document digitization, Handwriting recognition, Visual data interpretation

AI-Powered Business & Media Intelligence

Challenge
Data overload makes it hard to surface insights or monitor narratives.

Solution
AI tools extract entities, match claims, analyze sentiment, and generate structured reports.

Impact
Enables timely decisions, brand monitoring, and market insight discovery.

Applications
Brand perception analysis, Media monitoring, Executive reporting

Coordinated Behavior Detection in Social Media

Challenge
Misinformation networks and bot activity distort public conversations.

Solution
Graph Neural Networks (GNNs) analyze activity patterns and relationships to flag suspicious behavior.

Impact
Empowers cybersecurity and trust teams to detect and respond to coordinated campaigns.

Applications
Disinformation detection, Platform safety, Digital forensics

Predictive Risk Assessment in Healthcare

Challenge
Late detection of diseases and adverse drug events impacts outcomes.

Solution
AI models analyze patient records, streaming data, and questionnaires to predict health risks.

Impact
Supports early intervention, personalized care, and safer pharmaceutical trials.

Applications
Disease risk prediction, Clinical decision support, Drug safety forecasting

Contact us for more information   atc.gr   info@atc.gr