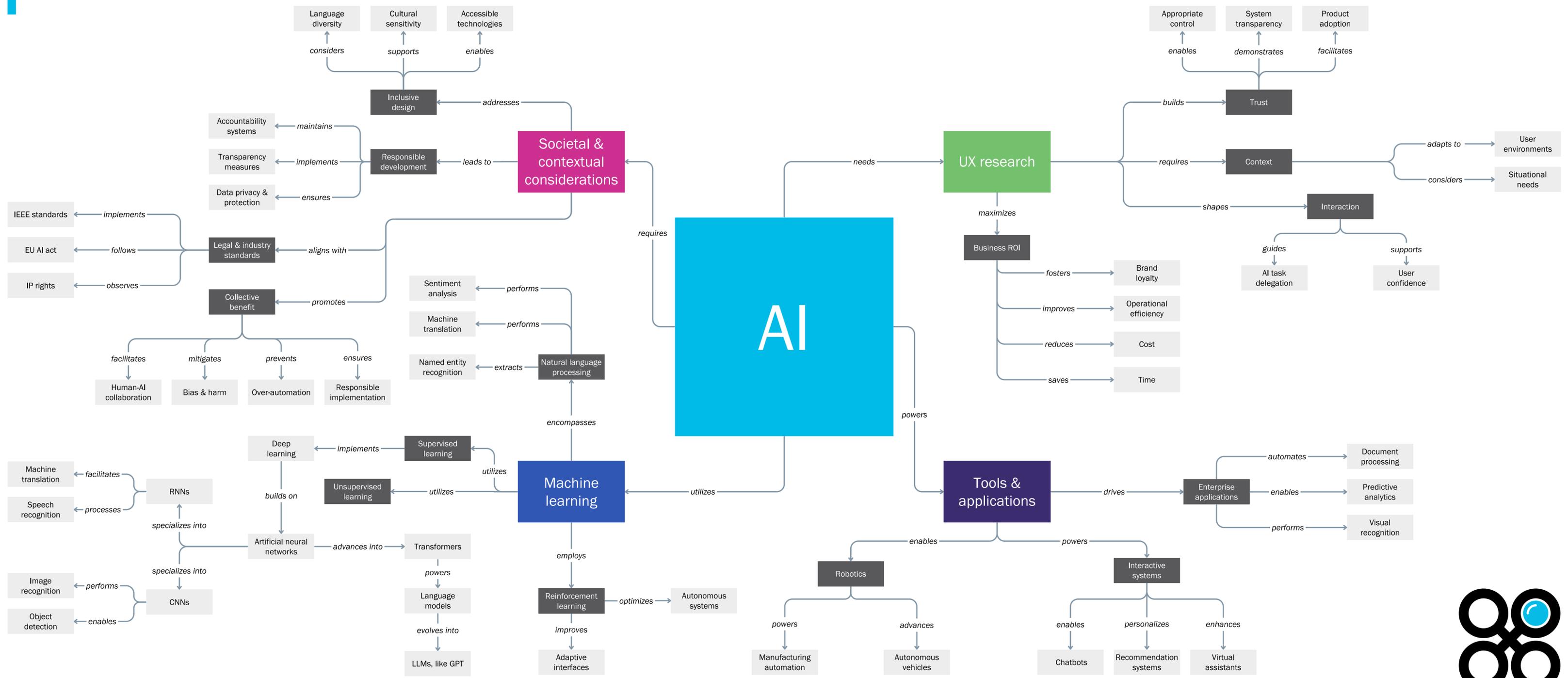


THE ULTIMATE AI AND UX MIND MAP FOR 2025



AI & UX

RESEARCH TOPICS

- Enhance collaboration between humans and AI by designing intuitive interaction models.
- Build trust through transparent designs that clearly communicate AI's capabilities and limitations.
- Measure the business impact of integrating AI, focusing on efficiency, cost savings, and user satisfaction.

METHODS

- Test AI interfaces in real-world scenarios to evaluate how well they support user needs.
- Use diary studies to track how users engage with AI tools over time and adapt to them.
- Validate how effectively AI explains its decisions to users in ways they can easily understand.
- Analyze the ROI of AI solutions to link design improvements with measurable business outcomes.

IMPACT

- Develop clear, engaging ways to communicate what AI can (and can't) do.
- Create systems that adapt to context, providing the correct support level for different environments.
- Incorporate trust-building features, like clear feedback and user control, into AI systems.

Societal & contextual considerations

- Evaluate accessibility of AI systems across user groups, including those with disabilities or limited technical skills.
- Test whether AI tools comply with laws and ethical standards to build trust and accountability.
- Understand how AI systems and tools need to adapt culturally and linguistically for use across global markets.

- Facilitate inclusive design workshops that involve diverse stakeholders.
- Test AI systems in varied cultural and regional contexts to uncover unique user needs.
- Audit AI outputs for biases or unintended consequences that could harm specific groups.
- Review AI systems against industry regulations to validate compliance.

- Develop AI interfaces that reflect cultural nuances and inclusivity for global audiences.
- Build transparent systems for holding AI accountable when things go wrong.
- Establish robust testing protocols to promote fairness and safety in real-world applications.

Machine learning (ML)

- Explore how people interact with ML-powered tools like chatbots, recommendations, and translations in their daily lives.
- Understand mental shortcuts people develop when using systems driven by supervised or unsupervised learning.
- Investigate how users build trust with AI systems, such as adaptive interfaces or reinforcement learning applications.

- Analyze large user behavior datasets to identify patterns to improve AI models.
- Test system outputs with structured experiments (like A/B tests) to ensure they meet user expectations.
- Conduct usability studies to understand how people navigate ML-powered features.
- Collect feedback directly from users to fine-tune AI-generated results.

- Create interfaces that adapt intelligently to user behavior for a seamless experience.
- Develop ways to measure and improve user trust across different groups.
- Adjust ML systems to deliver outputs that are more relevant and intuitive for diverse audiences.

Tools & applications

- Map how users navigate AI-powered tools in real-world scenarios.
- Identify opportunities to balance automation with human oversight for safer and more efficient workflows.
- Measure how AI tools impact productivity, reducing repetitive tasks, and improving focus on creative work.
- Understand user's preferences for collaboration, decision-making, and emotional connection with AI (within personal and professional domains).

- Observe and document how people use AI tools (personally and professionally) through field studies and contextual inquiries.
- Collaborate with users in co-design workshops to make tools more intuitive and effective.
- Use eye-tracking and other techniques to evaluate attention patterns in AI interfaces.
- Analyze task flows to understand where automation helps and where human input is essential.

- Design clear handoffs between AI systems and human users to minimize friction and increase adoption and engagement.
- Build simple, intuitive controls for complex autonomous systems.
- Create pathways for users to recover from errors when AI systems don't perform as expected.

