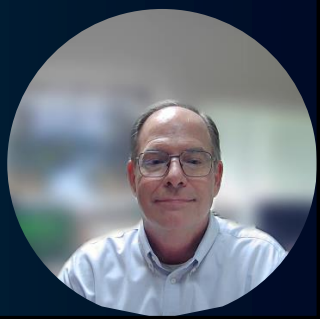
New Frontiers of Artificial Intelligence

Idaho Housing and Finance Association

Greg Blake, CIO
Idaho Housing and Finance Association



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Welcome to the Thinking Machine Era

- Advanced AI Reasoning
  - OpenAI o1 Series
  - Google's DeepThink
  - Claude Sonnet
- Voice with Multimodal – Text, Speech, Voice, Vision
  - Bland.AI,
  - Vapi,
  - Brilo AI

2

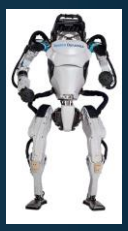
Welcome to the age where machines don't just compute—they comprehend and care.

- Enhanced Emotional Intelligence
  - Sesame – Personal AI assistant
  - Hume AI
  - Smart Eye

3

The robot revolution isn't coming. It's clocking in

- Robotics
  - Tesla – Optimus humanoid robots for manufacturing and home
  - Boston Dynamics – Atlas and Sport for industrial
  - Figure AI – General purpose robot



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Your Last Driving Lesson is Already Behind You

- Self Driving Cars
  - Waymo Google– Robotaxi
  - Tesla – Full self driving - Rototaxi
  - Cruise – GM – autonomous vehicle division
  - Aurora – Trucks and Logistics

5

The Last Interface You'll Ever Need

- Emerging Tech
  - Neuralink – AI-brain integration
  - Synchron – Medical brain implants
  - Meta – Neural interface research

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Artificial Intelligence

"Humans need and want more time to interact with each other. I think AI coming about and replacing routine jobs is pushing us to do what we should be doing anyway: the creation of more humanistic service jobs."

— Dr. Kai-Fu Lee, CEO Sinovation Ventures

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AI Personal Assistants

- Chat GPT - Open AI
- Gemini - Google
- Claude - Anthropic
- Grok - XAI
- Copilot - Microsoft
- Llama - Meta (Facebook)

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Transforming Finance with AI

- Three super cool tools
  - CoPilot for Finance
  - Numerous.AI
  - Ajelix BI

Copilot for Finance

Numerous.ai

AJELIX

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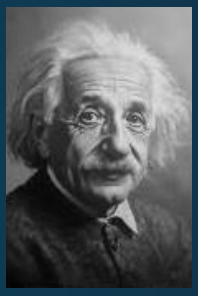
Tools of Interest

- Data Analysis
  - Microsoft Power BI
  - Julius AI
  - Tableau Einstein

Power BI



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Stop Managing Tasks. Start Managing Strategy.

Workflow and Admin Tools
- Microsoft Power Automate
- Zapier AI
- Jasper

zapier

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Artificial Intelligence

"When deploying AI, whether you focus on top-line growth or bottom-line profitability, start with the customer and work backward."

— Rob Garf, VP of Salesforce Retail

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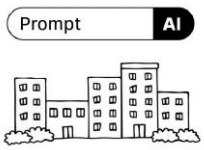
AI Strategy That is Industry Specific and Secure

Human-in-the-loop

AI agents with validation to ensure accuracy



Accurate prompts

Prompts fine-tuned & pre-engineered by industry experts

Data security

Closed environment to ensure your data is secure

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Considerations

- AI Ethical Consideration
  - Guardrails
  - Legal Risks
- Governance
  - Policy and Procedures
  - Develop a Strategy
- Risks and Challenges
  - Security
  - Regulations
  - Consumer Rights

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Artificial Intelligence

"AI will not replace humans, but those who use AI will replace those who don't."

— Ginni Rometty, Former CEO of IBM

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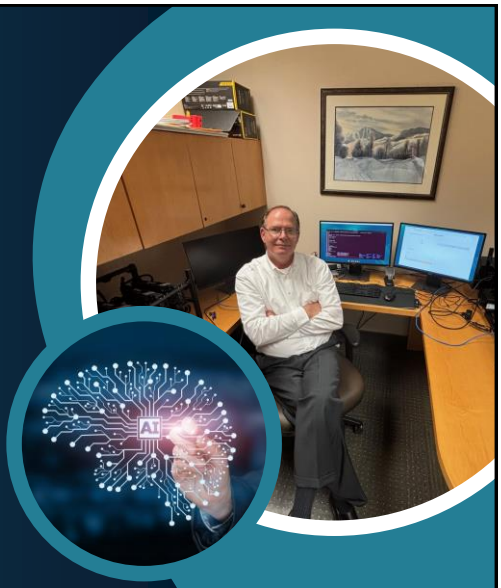
Thank You!



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