

## Unleashing the Power of AI for Staffing/Recruiting

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## **Prologue**



- Hello friends and colleagues
- How many in the room are users of Chat GPT?
- What if your HR clients could implement AI tools like it to automate nearly every aspect of their internal recruiting functions? What would that mean to you?
- Earlier this year I asked myself the same question and quickly took action to implement AI enabled tools both for the sales and recruiting areas of Artizen.
- HR Tech Conference in Las Vegas It drew technology professionals at Sr. levels specific to HR. The best attended sessions were those related to AI.
- Sharing data from the HR Tech Conference

#### Results of Al Implementation – 10/23 HR Tech Conference





Applicant s

3 times number of applicants completin g applicatio n

Time

2500 hours saved weekly on recruiting tasks Spend

Millions saved in marketing and advertisin g costs

#### **Results of AI Implementation – 10/23 HR Tech Conference**





Efficiency

Shortened application and scheduling time from 3 days to 3 minutes

# of Applicants and Candidate Experience

Doubled application s, with a 99+% candidate satisfaction rating

Time to Hire

Improved time to hire from 21 days to less than 3

Management Tim e Savings

Returned 4-5 hours to restaurant managers per week

#### Southern Rock Results of Al Implementation – 10/23 HR Tech Conference



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## Agenda: Unleashing the Power of Al for Recruiting



- Speaker Introduction
- Current Staffing/Recruiting Business Landscape and Challenges
- Overview of AI in the Staffing Industry and Benefits
- AI A Little More Technical Perspective
- Al Use Cases for Staffing and Recruiting
- Modern Al Tools for Recruiters
- Al Considerations and Risks
- Case Study HireAssist
- HireAssist Live Demo
- Q & A

## **Your Speaker Today**



#### **Analytics Executive and Management Consultant, Bay Area**

- 25 years experience in technology innovation and digital transformation
- · Management Consulting expertise in Hi-Tech, Supply Chain, Services, and Operations
- Deployed novel big data analytics and AI solutions for Hi-Tech, Finance, eCommerce, Retail, and Cloud
- · Coremetrics (IBM), eBay, Cisco, E2E Analytics (Accenture), Genpact, Artizen
- Managed Consulting business development for F500 firms and technology clients
- Education: Ph.D. in Physics, AI certificate from Stanford, Generative AI credential, AWS and Azure Cloud certifications



## **Business Landscape and Challenges**



The current job recruiting and staffing industry has various challenges, among which are:

- Time-to-hire
  - Reduce time-to-hire from receipt to submittal (placement)
  - It takes an average of 44 days to fill an open position at US companies
  - 2023 cost of recruiting and hiring a US SW engineer ranges from \$4-5K/hire



- % of job order fill rate
  - Industry avg is 24% and 29-39% for larger companies (Tech Serve Alliance)

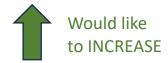


- Personnel productivity ratio (% gross profit committed to payroll)
  - ❖ ASA quotes 40% for high profit company and 55.8% for a typical firm.
  - People will work more efficiently

Would like to REDUCE

#### Staff readiness and satisfaction

- ❖ Billable staff turnover avg. 47%
- Al can help training, faster learning (eg. Boolean)
- Lower cost resources can do better job



## **Expected Use of AI in the Staffing Industry**



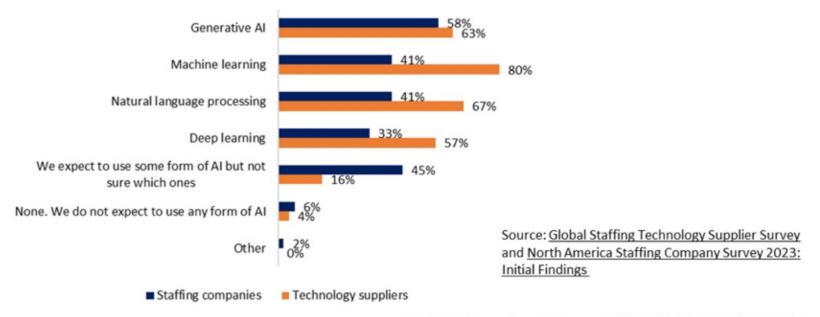
# Expected use of AI amongst tech suppliers vs. staffing companies

Share of staffing companies and technology suppliers citing expected use of selected types of AI over next five years (N=375, 51)

From



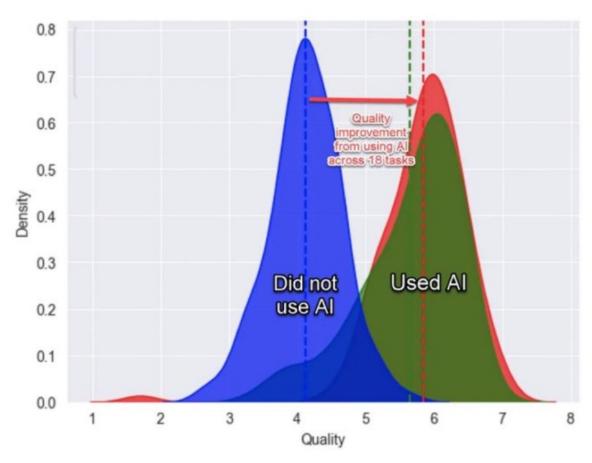
October 2023



SIA | Staffing Industry Analysts Thought Leadership Webinar

## **AI - Inflection Point for Worker Productivity**



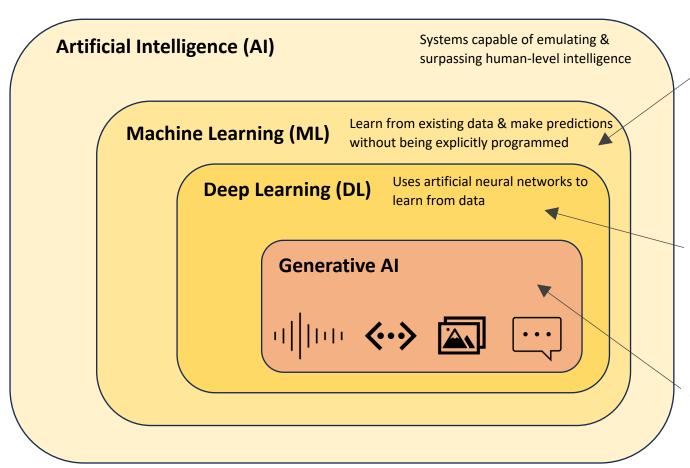


Distribution of output productivity across all the tasks. The blue group did not use AI, the green and red groups used AI, the red group got some additional training on how to use AI.

Consultants using GPT-4 finished 12.2% more tasks, completed tasks 25.1% more quickly, and produced 40% higher quality results (BCG, Sept. 2023).

## Al & Data Science - Technical Perspective & Usage





Pattern recognition, trends, forecasts, classification, business insights, predictive analytics

Customer Service, Leads/Retention Scores, Prod Mgmt, Demand sensing, Predictive maintenance,...

Process unstructured data, image/speech recognition, Natural Language Processing

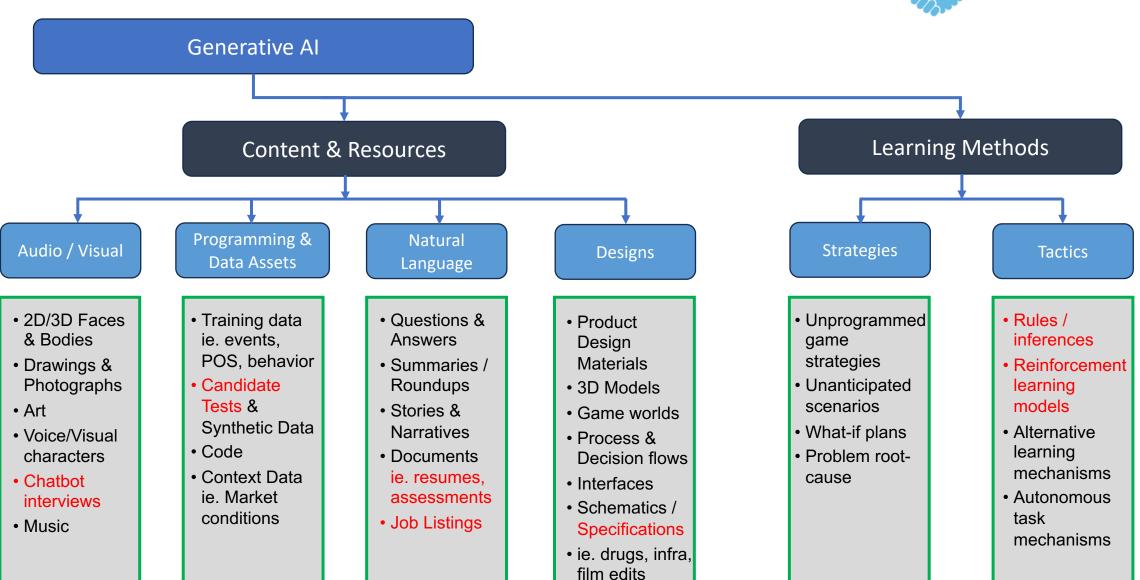
Computer vision, Sensors, Autonomous vehicles, Factory Robots,...

Generate new content (LLMs)
Images, video, text, code, synthetic data

Q&A, Summarization, Virtual Assistants, Personalization, Story-telling, Translation,...

#### **Generative AI - What Can We Generate?**

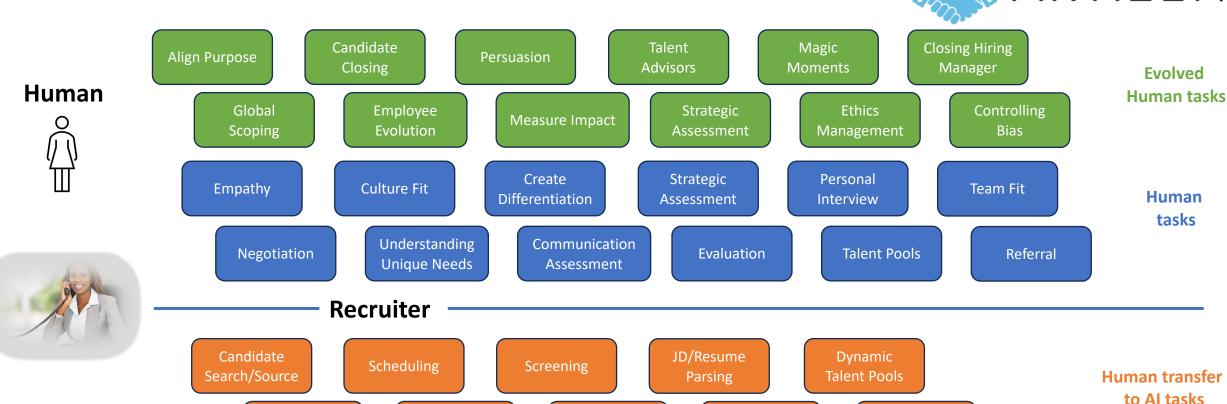




#### **Recruiters Will Evolve with AI & Automation**



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Discover

Leads

Watchlist

Companies



Lead scoring

Profile
Augmentation

Job Matching

Job Insights

Profile

Intelligence

Rediscovery

Engagement Scoring Referral Scoring

Quality

Assessment

Video

Interviews

JD & Test Creation

Process Management

Referral

Engine

New AI tasks

13

## Al Use Cases in Staffing and Recruiting



Recruiters are constantly pressed to do more with less. Al-powered tools can streamline many of the administrative tasks that consume big slices of time.

- Sourcing: Identify best-fit candidates through job-matching and scoring capabilities.
- Screening: Score and rank candidates based on defined criteria. Narrow large candidate pool down to most-qualified. Personalization
- **Job descriptions:** Generating JD from email, text, or voice
- Scheduling: Use chatbots and calendar integrations to automatically coordinate interviews and other meetings.
- Interviews: Ask questions and evaluate candidate responses
- Summarizing results back to clients/hiring
- KPI and Metrics Recruiting analytics, How are we performing, source/placements, time/productivity, insights

## **Al Staffing and Recruiting Tools**



## Find Clients

Marketing optimization

Textio

Al customer interactions Gong.io

Web scraping lead gen Agency-Leads

Profiles & Intents
SeamlessAl

Business search engine **ZoomInfo** 

ABM insights & data 6Sense

#### Sourcing

Talent intelligence Findem

Match talent-companies
Hired

Create profiles for talent SeekOut

Personalize job searches

Phenom

(G) Identify candidates **Beamery** 

(G) Boolean Search HireAssist

#### **Evaluation**

Interviews & scheduling myInterview

Video interview autom. **HireVue** 

(G) Conversational screen
Paradox

Texting, scheduling, autom.

GrayScale

Tracking & workflow mgmt.

Talenture

(G) LLM Q&A assistance
HireAssist

#### Selection

Conversational matching

Mya Systems

(G) Diversity searches/filters
PowerToFly

(G) Conversational recruit Paradox

(G) Talent Mgmt Intell. **Eightfold.ai** 

(G) Prioritize candidates **Beamery** 

(G) Capability assistant
HireAssist

#### **Submission**

Outreach & tracking CircaWorks

Ranking and assessments.

Turbohire

(G) Conversational onboard Paradox

Hiring funnel mgmt.

Recruitee

JD, analytics, decisioning Skillate

(G) Summarizer assistant
HireAssist

#### Al Tools - Considerations and Risks



#### **Bias and Discrimination:**

All is only as good as the data it is trained on. Important to know the data inputs.

#### **Lack of Transparency:**

Explainability of the models - why did AI come up with a certain decision? How was the score determined?

#### **Ethics:**

Moral and ethical values in AI systems, especially in decision-making contexts with significant consequences

#### **Data Privacy:**

Maintaining compliance with CCPA, GDPR, ISO 27001, etc. Note: using public generative AI tools can allow your data to be used by the tool provider

#### **Hallucinations:**

Being large statistical models, LLMs can give you wrong or made-up answers.

#### **Security:**

Such as malware, fraudulent injection (training), misuse.



#### **AI - A Few Best Practices**



- Be purpose-built and practical
- Align with a clear business case
- Start small and grow; Right size system
- Look for transparency in technology
- Bake in security and privacy, ask about bias and explainability
- Not all tools are right for all companies; depends on your data and needs
- Audience/Users: Need adoption and buy-in from many different people

## **Case Study - HireAssist**



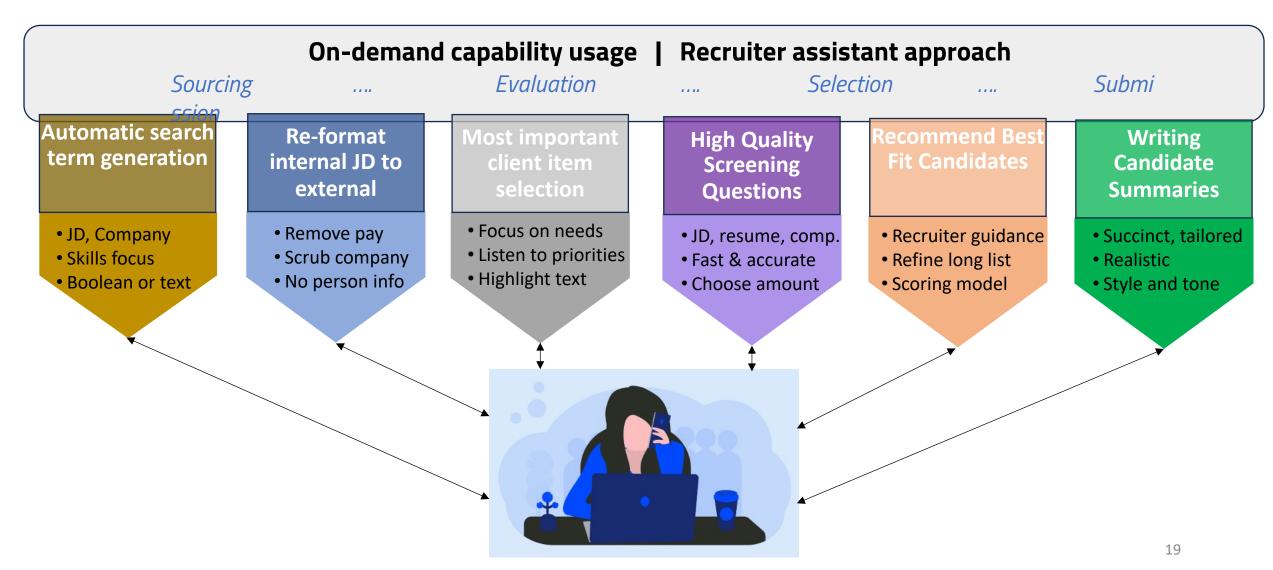
A generative AI software system to assist HR/Recruiters with the job hire process:

- Sourcing and talent identification
- Candidate interviews and evaluations
- Candidate job fit assessment
- Write Candidate summaries

Based on a Large Language Model (LLM) and capability-driven

#### Some HireAssist Task-Oriented Use Cases

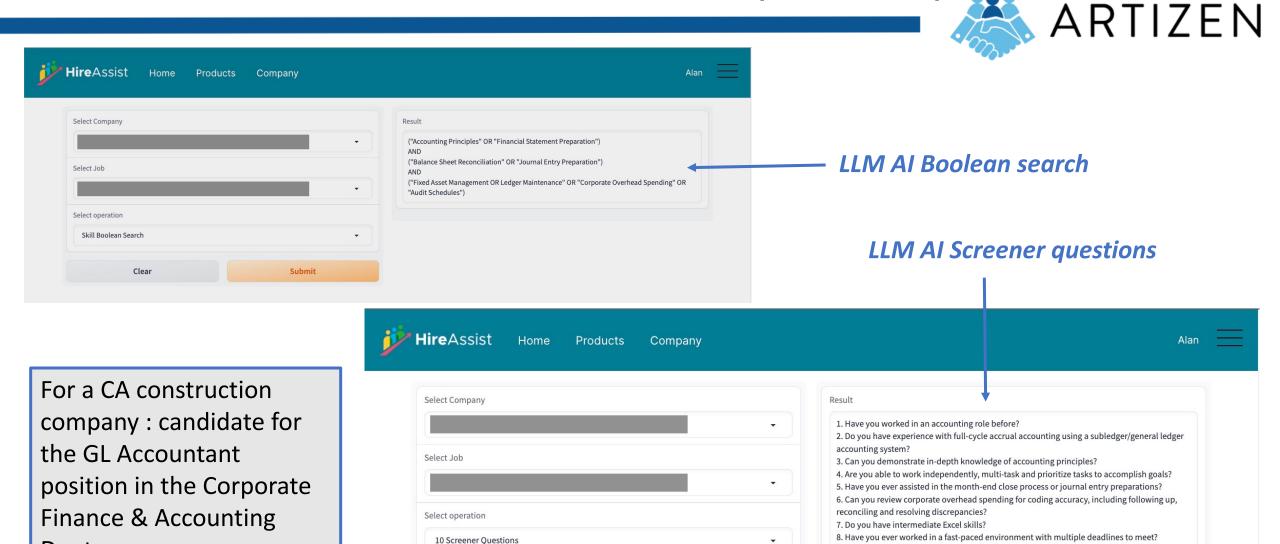




## HireAssist Sample Screenshot Demo (Redacted)

Clear

Dept.



Submit

9. Can you start immediately?

10. Have you dealt with confidential information?



# Q & A



# Thank you!!

Contact: Hal@artizen.com





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