

# Navigating the AGI Revolution: Retraining and Redefining Human Purpose

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The rapid advancement of artificial intelligence has sparked both excitement and concern about its potential impact on society. While AI promises to revolutionize various industries and improve our lives in countless ways, the potential rise of Artificial General Intelligence (AGI) – AI systems with human-level or exceeding cognitive abilities – presents unique challenges, particularly in the realm of employment and human purpose.

This white paper discusses the potential impact of AGI on the job market, explores the concept of retraining programs as a solution, and proposes **FutureProof**, an application that helps impacted workers rediscover their life’s purpose. The app consists of two main components - an assessment tool that estimates the probability that a user’s job is at risk of automation, and a learning platform that provides resources to help retrain the user for a new, more future-proof role.

## 1. Problem overview

AGI is poised to disrupt the job market significantly, potentially transforming the very nature of work as we know it. While AI currently excels in automating specific tasks, AGI’s capacity for general-purpose problem-solving and learning could lead to automation across various sectors, including those traditionally considered the domain of human expertise<sup>[1]</sup>.

Before the rise of LLMs, experts expected the most profoundly impacted sectors to be those characterized by routine-based tasks, such as manufacturing, transportation, customer service, and administrative support<sup>[2]</sup>. Now, even white-collar jobs involving data analysis, financial services, and potentially even medicine and law are expected to be affected<sup>[3]</sup>. This widespread automation could lead to significant job displacement, requiring proactive measures to mitigate potential economic and social consequences<sup>[4]</sup>.

However, the impact of AGI on the job market is not solely about job losses. AGI is also expected to create new opportunities and reshape existing roles<sup>4</sup>. As AGI takes over routine tasks, human workers can focus on more creative, strategic, and interpersonal aspects of their work<sup>[5]</sup>. This shift necessitates a re-evaluation of job roles and a focus on developing skills that complement AGI, such as critical thinking, complex decision-making, and emotional intelligence<sup>[6]</sup>.

As AGI potentially ushers in an era of abundance, where many basic needs are met through automation, the question of how humans find meaning and purpose becomes even more pertinent<sup>[7]</sup>. Some suggest that a post-AGI culture could shift towards a focus on experience, exploration, and personal growth, where individuals find fulfillment in pursuing their passions, contributing to their communities, and exploring the vast potential of the human mind<sup>[8]</sup>.

## 2. Your solution

We propose FutureProof as a comprehensive platform to help workers navigate the transition to an AGI-enabled economy. While our hackathon prototype (see Section 3) demonstrates the core assessment interface, our full vision encompasses:

1. **A predictive analytics engine**, backed by economic research, data, and forecasts.
2. **A learning platform**, providing users with the resources they need to succeed in the next phase of their lives.

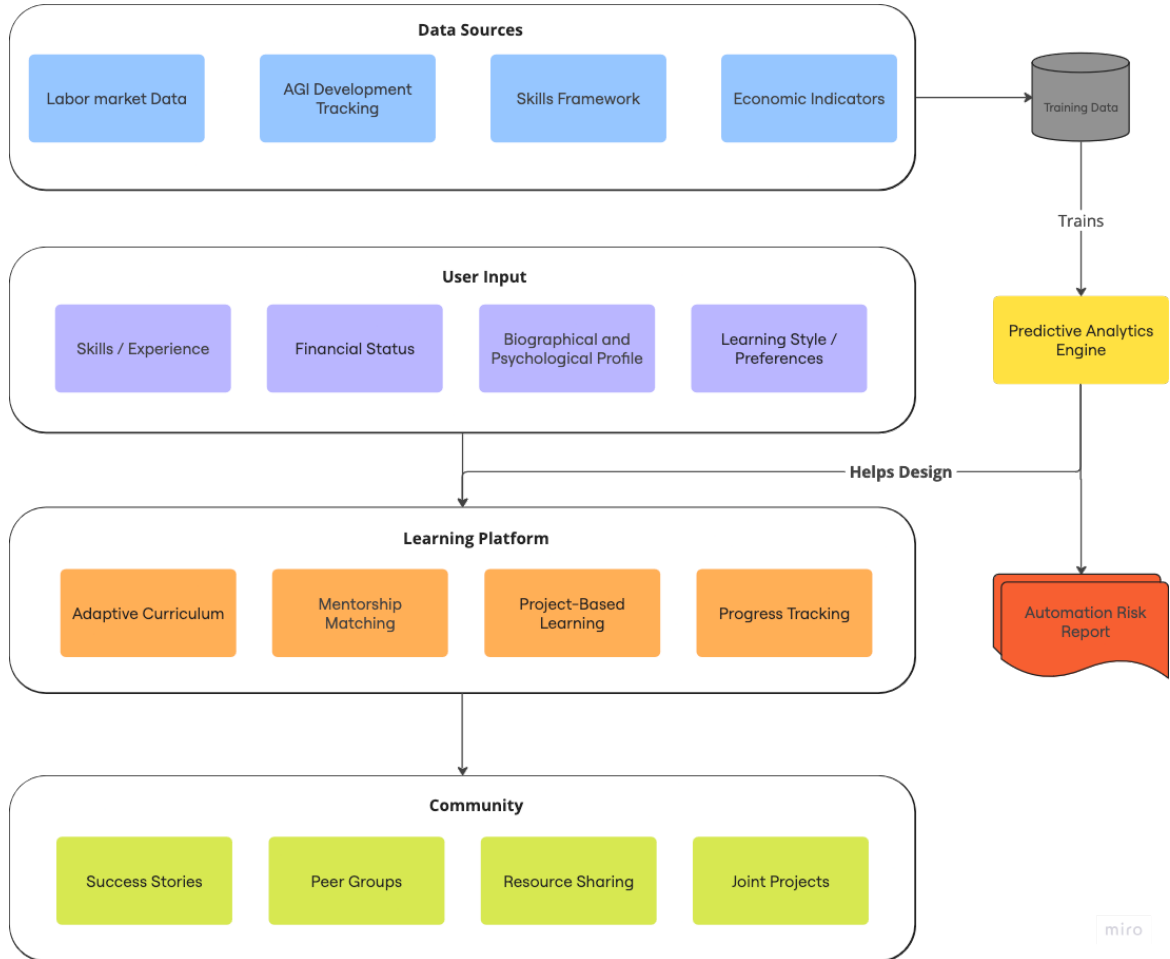


Figure 1 – System Diagram

### I. Predictive Analytics Engine

The heart of our solution would be a machine learning pipeline combining multiple data sources:

- Labor market data from sources like LinkedIn API and Bureau of Labor Statistics
- AGI development tracking via arXiv papers and tech company announcements
- Skills frameworks from O\*NET and industry standards
- Economic indicators for various sectors

This would feed into our proposed risk assessment model. Based on user-provided evaluate:

- Job automation probability based on task decomposition
- Timeline predictions for specific role changes
- Emerging skill requirements in different sectors

We envision utilizing standard regression techniques paired with powerful transformer-based models.

## II. Learning Platform

We propose an adaptive system that would:

- Generate personalized learning pathways for the user
- Connect users with relevant online courses and resources
- Facilitate project-based learning opportunities and offer to connect with mentors
- Track progress and adjust recommendations

## 3. Pilot experiment or demo

With the help of Claude Artifacts, we created a mock-up of the [frontend prototype of a user's journey](#) through the assessment portion of our application. Figure 2 below presents screenshots from the same. A mobile app mockup of the platform can be found [here](#).

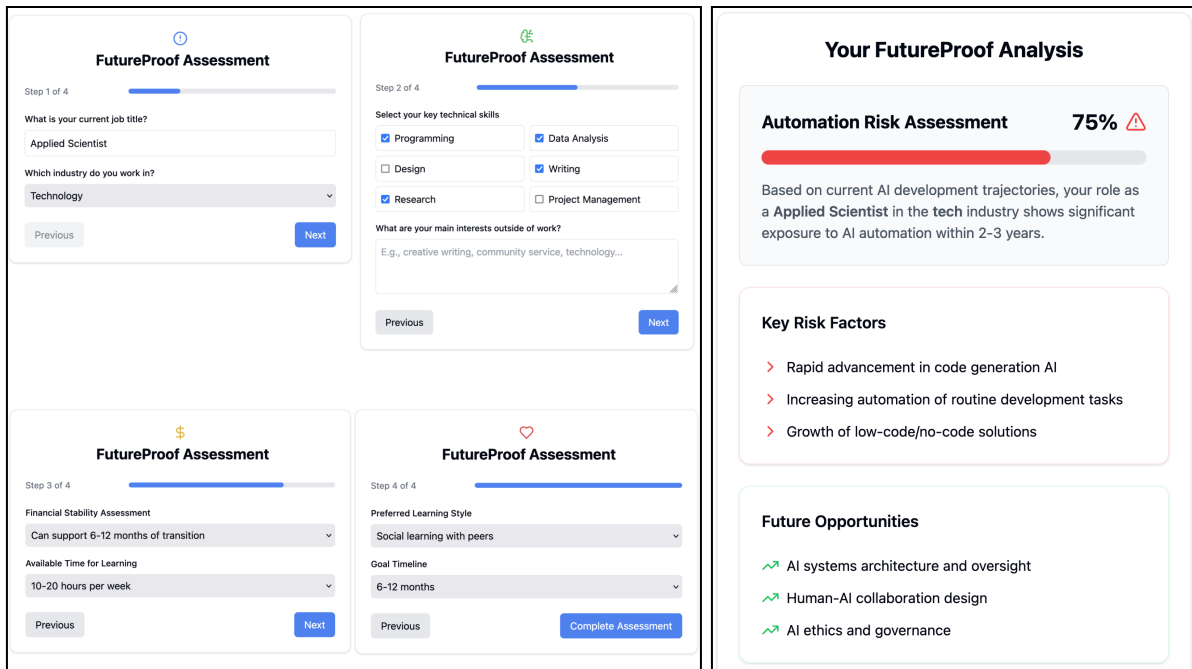


Figure 2 – User Assessment Journey

## 4. Process

If given unlimited resources and one year, what would be your next steps towards commercialization? You can find inspiration about the market in the [AIAT report](#) but otherwise, use your intuition.

Timeframe	What will you do?
Next 3 months	<p>Core Team Assembly:</p> <ul style="list-style-type: none"><li>● Recruit ML researchers from leading AI labs</li><li>● Hire full-stack developers with enterprise expertise</li><li>● Form AI safety and security teams</li></ul> <p>Strategic Partnerships:</p> <ul style="list-style-type: none"><li>● Establish data sharing with HR platforms</li><li>● Partner with learning management systems</li></ul> <p>Initial Product Development:</p> <ul style="list-style-type: none"><li>● Acquire sources of economic data and forecasts</li><li>● Build risk assessment algorithms</li><li>● Develop skills mapping engine</li></ul>
2025	<p>Q2-Q3: Market Entry and Validation:</p> <ul style="list-style-type: none"><li>● Beta deployment with Fortune 100 companies</li><li>● Implement feedback loops</li><li>● Develop customer success frameworks</li></ul> <p>Q4: Market Expansion:</p> <ul style="list-style-type: none"><li>● Enter EU market with GDPR compliance</li><li>● Prepare APAC market entry</li><li>● Deploy regional data centers</li><li>● Launch API marketplace</li></ul>

2026	<p>Enterprise Platform Scaling:</p> <ul style="list-style-type: none"> <li>● Scale distributed computing architecture</li> <li>● Enhance real-time processing capabilities</li> <li>● Expand integration partner program</li> </ul> <p>Ecosystem Development:</p> <ul style="list-style-type: none"> <li>● Launch developer community</li> <li>● Implement certification framework</li> <li>● Expand industry partnerships</li> </ul>
2027	<p>Industry Leadership:</p> <ul style="list-style-type: none"> <li>● Strategic acquisitions of complementary technologies</li> <li>● Next-gen feature development</li> <li>● Expand global market presence</li> <li>● Lead industry standards development</li> </ul>

## 5. Impact on AI safety & key risks

*Identify why this solution has a positive impact on the margin. What are the key risks your solution faces and how will you mitigate them?*

1. *Evaluate direct and indirect safety benefits*
2. *Discuss potential risks and mitigation strategies*
3. *Describe alignment with industry safety standards*
4. *Outline monitoring and evaluation methods*
5. *Present success metrics and KPIs*

### Potential Technical Challenges

We anticipate several key challenges:

1. **Data Integration**
  - Acquiring and maintaining updated labor market data
  - Ensuring data quality and consistency
  - Managing privacy concerns
2. **Model Accuracy**
  - Validating prediction accuracy
  - Handling rapid market changes
  - Accounting for regional variations
3. **Scalability**
  - Supporting growing user base
  - Maintaining performance
  - Managing infrastructure costs

## Success Metrics

We propose measuring success through:

1. **User Impact**
  - Number of successful career transitions
  - Income maintenance/improvement rates
  - User satisfaction scores
2. **Technical Performance**
  - Prediction accuracy rates
  - System response times
  - Learning pathway completion rates

## 6. Appendix

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