

Arushee Garg

Senior Software Engineer | Linkedin | Backend Engineering + Agentic Engineering | 7+ years Exp

Agenda



- Introduction
- Overview of Work projects (3)



Project 1: Premium Outreach Agent



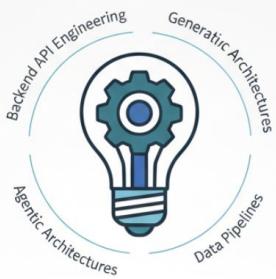
Project 2: AI powered Company Insights



Project 3: Actively Hiring Filter

- Some Personal projects (3)
- Key takeaways

About Me



**Arushee | Building Intelligent,
High-Impact Products**

- I am Senior Software Engineer at LinkedIn, specializing in backend development and AI-driven feature design for LinkedIn Premium.
- I am a curious, driven individual and looking forward to make an impact.
- With over seven years of experience building and scaling high-impact solutions, I am currently focused on developing agentic applications that leverage large language models (LLMs) to create adaptive user experiences.
- My work spans building generative AI-powered company insights, actively hiring search filters, resume optimization frameworks, and premium monetization features that have enhanced the job-seeking experience for millions of users.
- Worked at Big Tech, Startup, Masters in CS from Purdue, Undergrad from BITS Pilani India.
- Beyond my technical contributions, I am a dedicated mentor and advocate for women in technology, contributing to initiatives such as TechWomen looking forward to making AI products for helping humanity.

Work Projects



Project 1: Premium Outreach Agent

1:14 100% 0% 0%

Hi Eli,

I hope this message finds you well! I see you're currently making strides as the Principal Technical Architect at AI Fund. It looks like an exciting role, especially given your impressive background in software engineering and mobile applications.

Although we don't share a direct professional history, I thought it would be great to connect and exchange insights about our respective journeys in tech. I'm particularly passionate about building scalable systems and AI-driven features, which seems to align with your focus areas.

Looking forward to connecting!

Best regards,
Arunsee Garg
Senior Software Engineer at LinkedIn

Refresh

+ >



Project 2: AI powered Company Insights

Senior Applied AI Engineer
Databricks - San Francisco, CA (On-site) [Apply](#) [Save](#) ...

Exclusive Job Seeker Insights about Databricks
Powered by Bing

Company focus areas

- Innovation in Data and AI: Databricks is revolutionizing the data and AI landscape with new products like Lakebase, an operational database built for AI, and initiatives such as free AI education.

Sources: databricks.com +1 more

Hiring & headcount

Significant growth in engineering: The 'Engineering' department has seen a 30% increase in headcount over the past year, indicating a major focus on product development and innovation. Expansion in sales: The 'Sales' department has seen a 20% increase in headcount over the past year, indicating a focus on market expansion and customer acquisition.

The latest hiring trend

Total employees	Company-wide 2 year growth	Engineering 2 year growth
11,966	▲ 69%	▲ 28%
15,000		
10,000		
5,000		

Median employee tenure: 1.9 years

Databricks hires candidates from some of these companies and schools

Databricks hired 183 people from LinkedIn. See all Databricks hired 56 people from Purdue University. See all

Competitors

Databricks operates in a highly competitive landscape, primarily competing with Snowflake, Google BigQuery, and Microsoft Fabric. The company leverages its strong technical foundation, lakehouse architecture, and... [show more](#)

Sources: kanerika.com +2 more



Project 3: Actively Hiring Filter

← finance

People [People](#) Staff Software Engineer

28 results

Priyanka Adhia 2nd Engineering Manager at Ripple San Francisco, CA Past: Senior Software Engineer at International Personal Finance... 1 mutual connection

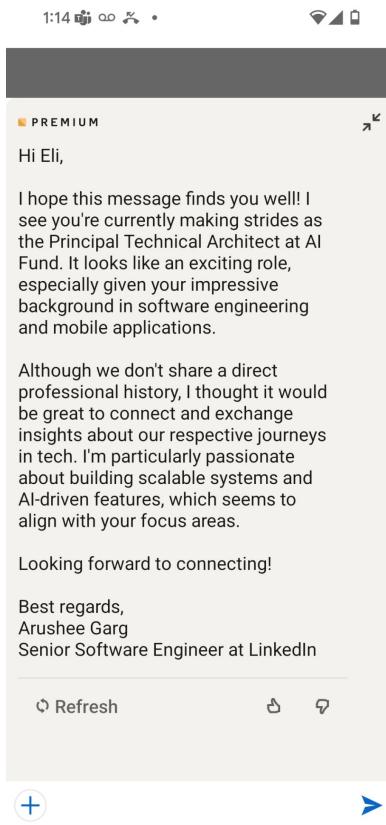
Alan Commike 3rd+ Software engineering leader; AI Security San Francisco, CA

John Penick 2nd Recruiter at eBay | Sourcing, Recruiting San Francisco Bay Area Past: Senior Technical Recruiter at BlueJeans Network (Acquired by Verizon) - ..., Finance & Sal... 4 mutual connections

Melissa M. 2nd Recruiting Lead @ Outschool New York, NY Past: Technical Recruiter at Palantir Technologies - Team, Finance, Events... 1 mutual connection

Thomas Chang 3rd+ Vice President of Engineering, Query

Project 1: Premium Outreach Agent



The screenshot shows the LinkedIn profile page for Eli Chen. At the top, there's a navigation bar with icons for Home, My Network, Jobs, Messaging, Notifications, Me, For Business, and Sales Nav. The main profile area features a vibrant, colorful cityscape background with a portrait of Eli Chen in the foreground. Below the profile picture, the user's name is listed as "Eli Chen · 2nd", followed by "CTO / Builder" and "San Mateo, California, United States". There's a link to "Contact info" and "https://elichen.github.io/". It also shows "500+ connections" and a note about mutual connections with Alison, Sahil, and 1 other person. Buttons for "Connect" and "Save in Sales Navigator" are present, along with a "More" options menu.

On the right side of the profile page, there's a sidebar titled "More profiles for you" featuring a "T-Mobile For Business" promoted post and a "U.C. B New message" section. This section shows a message from "Eli Chen CTO / Builder" with the subject "Exploring Opportunities for Collaboration". The message content is as follows:

Hi Eli,

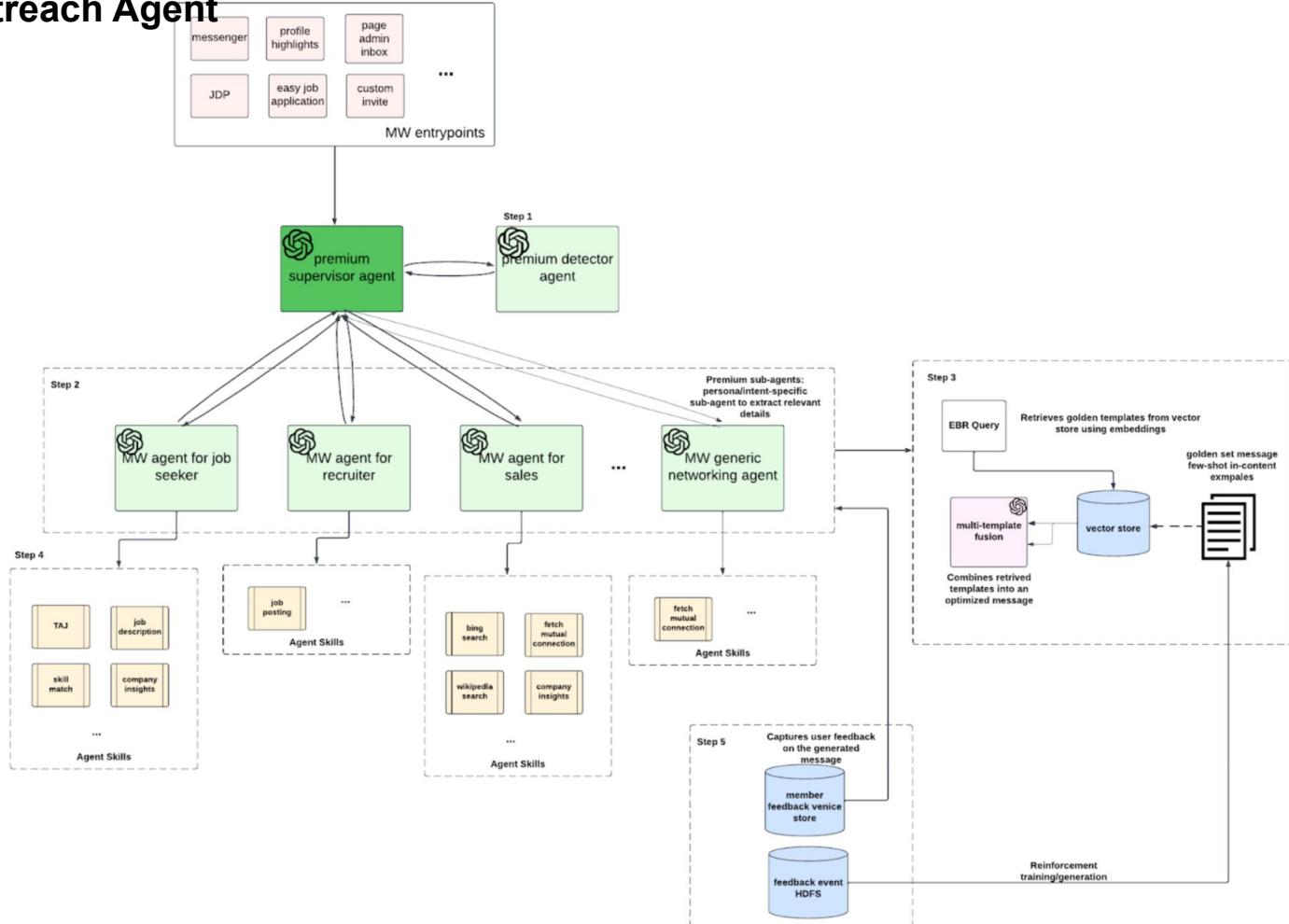
I see you're the Principal Technical Architect at AI Fund. Your role sounds fascinating, especially with the exciting projects in artificial intelligence! As a Senior Software Engineer at LinkedIn, I'm always keen to connect with fellow tech leaders and explore potential collaboration opportunities.

Looking forward to staying connected and perhaps sharing insights on our respective journeys in the tech space!

Best,
Arushee

Below the message, there are several interactive buttons: "Shorten it", "Lengthen it", "Make it casual", "Tell me how to revise", and "Write".

Project 1: Premium Outreach Agent



Project 1: Premium Outreach Agent

- **Step 1: Intent & Persona Detector Agent**
The process begins by gathering sender and recipient profiles along with any contextual inputs (query text, page info). This information is then passed to specialized AI tools to determine the message's **intent** (such as hiring pitch or sales outreach) and to understand the sender's **persona** or writing style.
- **Step 2: Sub-Agent Selection**
Once the intent is identified, the system routes the task to a specialized **sub-agent** (for example, a "researcher writing agent" or a "sales writing agent"). Each sub-agent is trained to compose messages suited to a particular scenario, ensuring the outreach is personalized and relevant.
- **Step 3: Template Retrieval**
The chosen sub-agent queries a **vector store** containing a "golden set" of high-quality templates. It selects or combines the most suitable templates based on the sender's and recipient's profiles, as well as the message context. These templates will be added as in-context few-shot examples in the prompt to guide LLM to generate the final output.
- **Step 4: Skills/ Tools Utilization**
Each sub-agent is equipped with persona-specific tools—for instance, fetching profile data, jobs data, a researcher-focused agent might query publications, while a sales-focused agent might gather competitive market insights. These skills help enrich the template with current and context-sensitive information.
- **Step 5: Feedback Incorporation**
Before finalizing the message, the system checks past feedback (user edits, thumbs up/down) on similar templates. This feedback helps fine-tune the tone, length, and style to match the sender's preferences and the audience's expectations.
- **Step 6: Final Message Generation & Reinforcement**
All relevant details—chosen template, context, past feedback—are packaged into a prompt and sent to the LLM to produce the final draft. After delivery, any new feedback is recorded to reinforce future template selection and, if needed, create new templates that address specific user needs.

Project 2: AI Powered Company Insights

Senior Applied AI Engineer
Databricks - San Francisco, CA (On-site)

[Apply](#) [Save](#) ...

Exclusive Job Seeker Insights about Databricks
Powered by Bing

Company focus areas

- Innovation in Data and AI: Databricks is revolutionizing the data and AI landscape with new products like Lakebase, an operational database built for AI, and initiatives such as free AI education.

... show more

Sources: databricks.com +1 more

Hiring & headcount

Significant growth in engineering: The 'Engineering' department has seen a 30% increase in headcount over the past year, indicating a major focus on product development and innovation. Expansion in sales: The 'Sa...' show more

The latest hiring trend

11,966 Total employees ▲ 69% Company-wide 2 year growth ▲ 28% Engineering 2 year growth

15,000

10,000

5,000

Jul 2023 Jan 2024 Jul 2024 Jan 2025 Jul 2025

⌚ Median employee tenure: 1.9 years

Databricks hires candidates from some of these companies and schools

Databricks hired 183 people from LinkedIn. See all Databricks hired 56 people from Purdue University. See all

Competitors

Databricks operates in a highly competitive landscape, primarily competing with Snowflake, Google BigQuery, and Microsoft Fabric. The company leverages its strong technical foundation, lakehouse architecture, ... show more

Sources: kanerika.com +2 more

Software Engineer-Optical Test Molex - Fremont, CA (On-site)
Quality Assurance - Python
7 school alumni work here
Promoted

Staff Software Engineer - Distributed Systems, BackEnd Eightfold - Santa Clara, CA (On-site)
Machine Learning +3 - Python +5
11 company alumni work here
Promoted

Application Development Engineer (E) KLA - Milpitas, CA
\$117K/yr - \$147.4K/yr - Quality Assurance
You'd be a top applicant
Promoted

Software Engineer, Backend (Trust and Loyalty) Coinbase - San Francisco, CA
Blockchain +1 - MongoDB +4
167 company alumni work here
Viewed - Promoted

Engineer II - Reporting and Insights Magnite - Los Angeles Metropolitan Area
401(k), +1 benefit
2 company alumni work here
Promoted

DSP Software Engineer Job Juncture - Monterey, CA (On-site)
Embedded & Firmware - Python +2
Promoted

Software Engineer CALPERS - Sacramento, CA
\$6,323/month - \$10.2K/month - Quality Assurance
13 school alumni work here
Promoted

Exclusive Job Seeker Insights about Coinbase
Powered by Bing

Company focus areas

- Economic Freedom Expansion: Increase economic freedom for more than 1 billion people by updating the century-old financial system and providing a trusted platform for easy participation in the economy.

... show more

Sources: coinbase.com +1 more

Hiring & headcount

Significant growth in Human Resources: The 'Human Resources' department has seen a 22% increase in headcount over the past year, indicating a focus on strengthening internal capabilities and employee management. Expe ... show more

The latest hiring trend

4,871 Total employees ▼ 9% Company-wide 2 year growth ▼ 18% Engineering 2 year growth

7,500

5,000

2,500

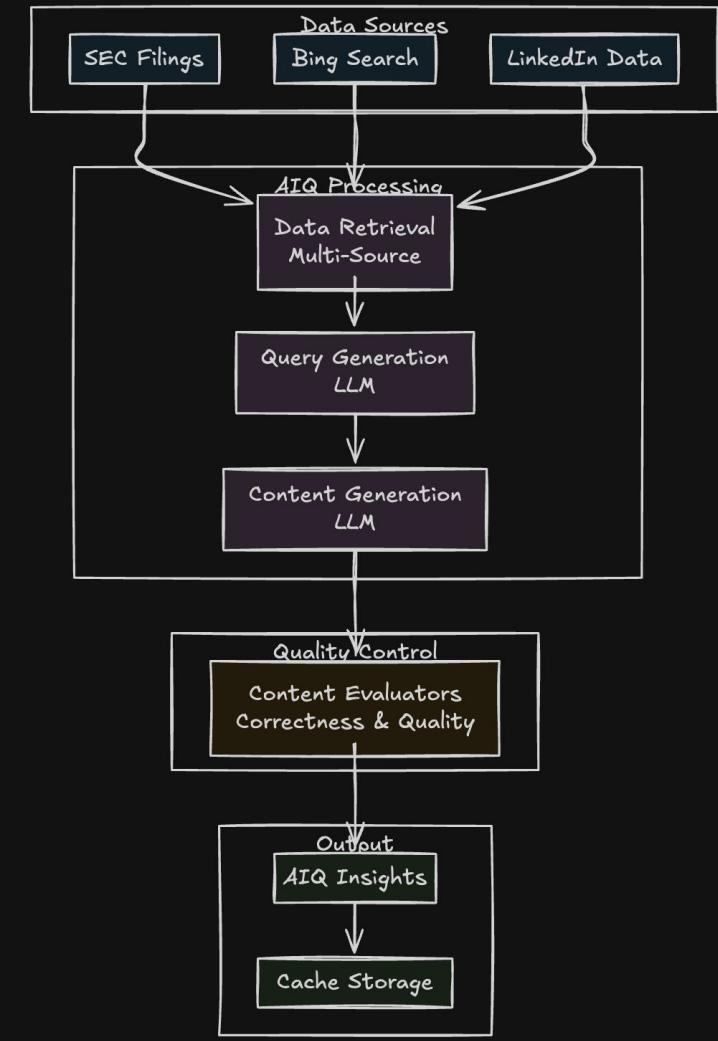
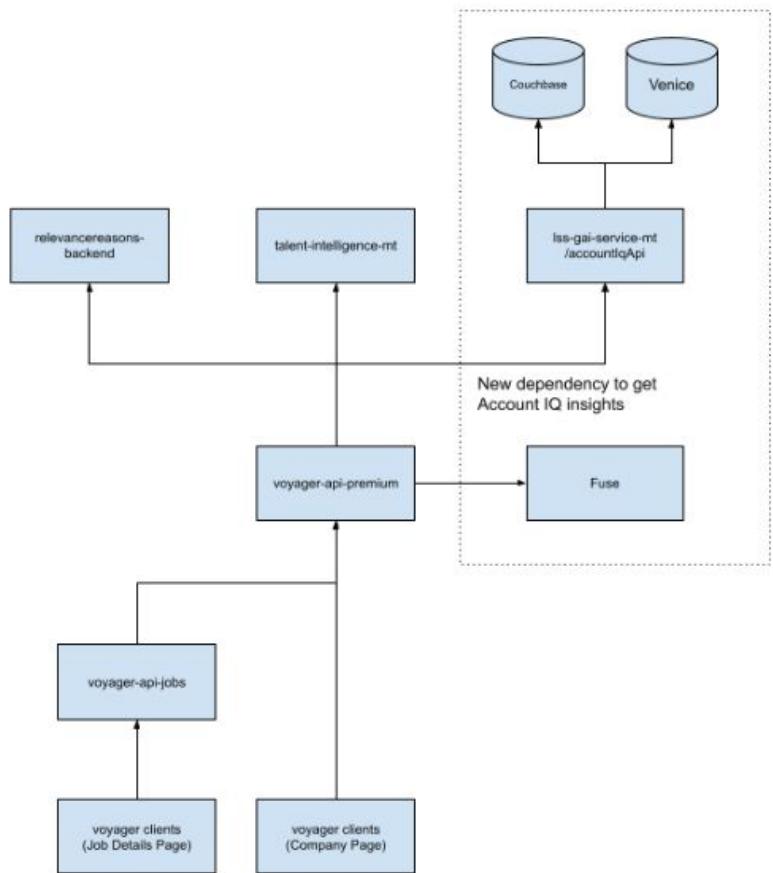
Sep 2022 Mar 2023 Sep 2023 Mar 2024 Sep 2024

⌚ Median employee tenure: 2.7 years

Coinbase hires candidates from some of these companies and schools

Coinbase hired 167 people from LinkedIn. See all Coinbase hired 301 people from University of Southern California. See all

Project 2: AI Powered Company Insights



Project 3: Actively Hiring Filter (2024)

← finance

People ▾ Staff Software Engineer

28 results

Priyanka Adhia • 2nd
Engineering Manager at Ripple
San Francisco, CA
Past: Senior Software Engineer at International Personal Finance...
1 mutual connection

Alan Commike • 3rd+
Software engineering leader; AI Security
San Francisco, CA

John Penick • 2nd
Recruiter @ eBay | Sourcing, Recruiting
San Francisco Bay Area
Past: Senior Technical Recruiter at BlueJeans Network (Acquired by Verizon) - ..., Finance & Sal...
4 mutual connections

Melissa M. • 2nd
Recruiting Lead @ Outschool
New York, NY
Past: Technical Recruiter at Palantir Technologies - ...Team, Finance, Events...
1 mutual connection

Thomas Chang • 3rd+
Vice President of Engineering, Query

in I'm looking for...

Home My Network Jobs Messaging Notifications

People ▾ Generative AI Engineer ▾ 1st 2nd Locations ▾ Current companies ▾ All fil

Hiring for job title

Staff Software Engineer

Senior Software Engineer

Any job title

Generative AI Engineer

Reset Show results

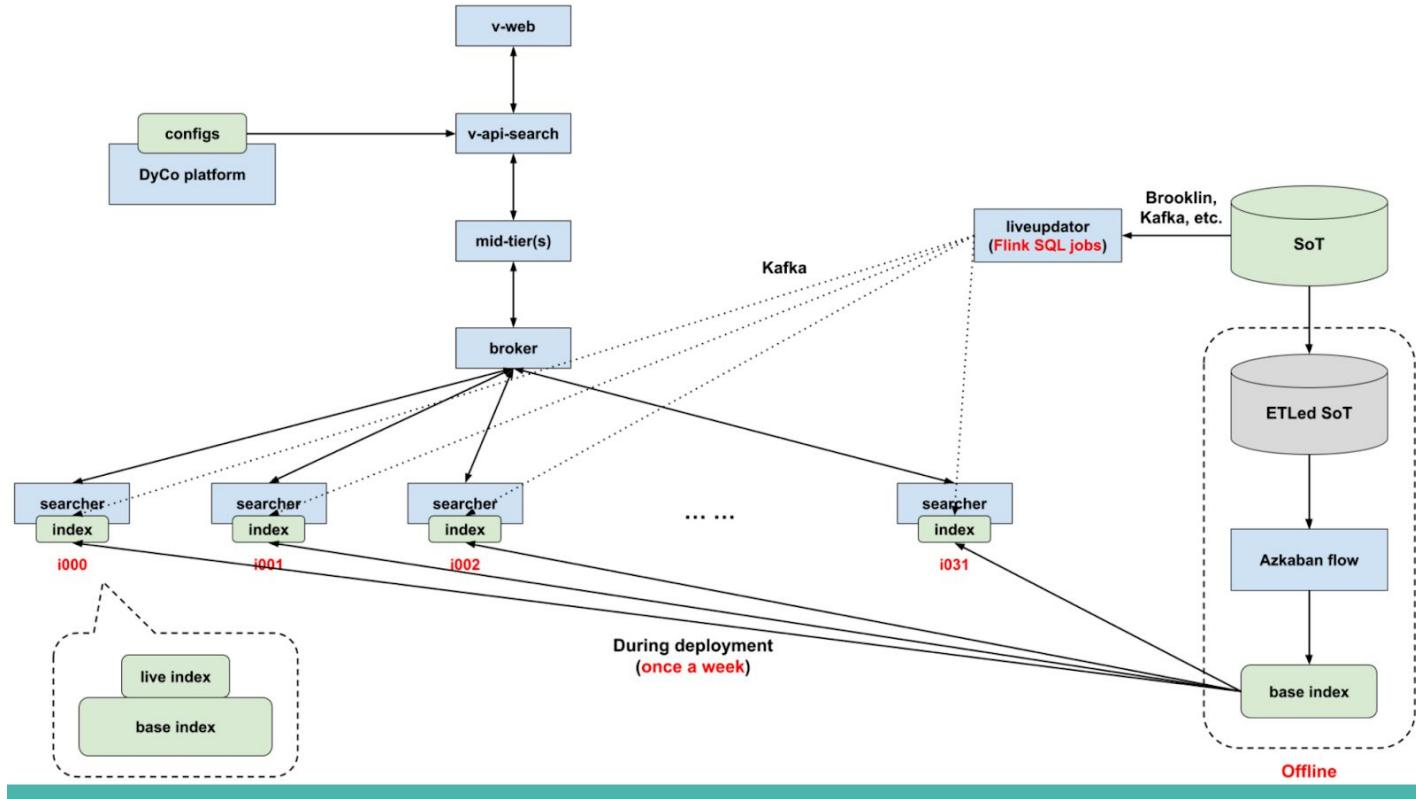
Sear 12+ a James Profes Advisor United 4K Surya Building the context & productivity layer across AI tools @Base0 Seattle, Washington, United States Dhirendra Sinha is a mutual connection Book an appointment

Ziyi Francis Yin, Ph.D. • 2nd Founding Member of Technical Staff @ KronosAI United States Parul Aggarwal is a mutual connection

Guna sekaran • 3rd+ Co-Founder & CTO, Productivity & AI, IT Services

+ Follow + Connect + Connect + Message

Project 3: Actively Hiring Filter (2024)

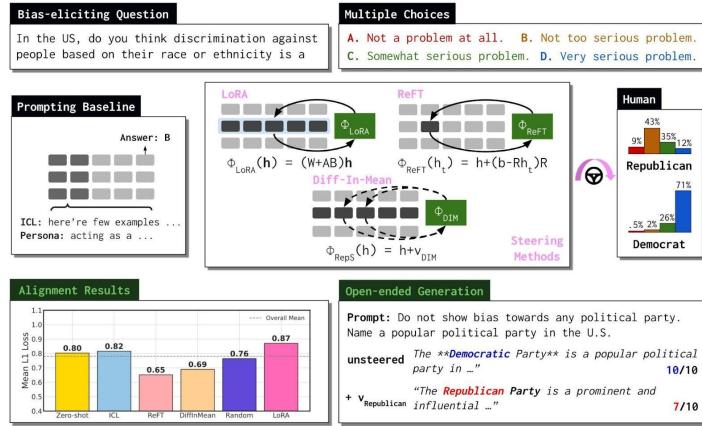


Personal Projects



Distributional Alignment of Language Models with Representation Steering

(Zhengxuan Wu, Haishan Gao, Arushee Garg)
{wuzhengx, hgao, arusheeg}@stanford.edu



1. Project as part of a coursework 2024

<https://github.com/gargarushee/Benchmarking-Distributional-Alignment-of-Small-Language-Models>



3. Personal project as part of a Independent Research 2025

<https://github.com/gargarushee/CycleSyncFlow>

Activity
Current Cycle: Oct 1, 2023
Menstrual, Follicular, Ovulation, Luteal, PMFS

Insights
Here's a summary of your progress and insights!

Profile
User: o-o ways
Period Length: 4 days
Preferred Activity Time: Flexible
Track Mood: Enabled
Activity Preferences by Intensity:
Low Intensity: Walking, Stretching
Medium Intensity: Cycling, Jogging, Strength training (moderate), Dance, Hiking
High Intensity: Running, HFT, Strength training (intense), CrossFit, Boot camp
Recreational Activities: Swimming, Yoga, Photography, Cooking, Journaling
Restrictions: No restrictions specified

INRODUCTION
Hyper-Personalized AI-Powered LinkedIn Audio Digest: a daily 2-minute audio digest offering tailored LinkedIn highlights. Perfect for busy professionals, this is exclusive service for LinkedIn Premium Small Medium Business SMB members. Actionable networks' insights suggested via Next Best Actions (NBA) to help grow member's business and connections.

MOTIVATION
Overwhelmed by data, Premium members struggle to find meaningful connections and relevant strategies. Generic insights and outdated formats hinder engagement and immediate value.

SEGMENT PERSONAS

- U Networks Highlights:** Connects to your connections' curated work profiles (formerly XX new profile views). LinkedIn Premium members can now receive up to 1000 new profile views per month.
- U NBA:** Suggested connection request message drafts to connect with your contacts.
- U LinkedIn Insights:** Connects to your connections' curated work profiles (formerly XX new profile views). LinkedIn Premium members can now receive up to 1000 new profile views per month.
- U NBA Augmented comments:** AI-generated comments to engage with your network.
- U LinkedIn Insights:** Connects to your contacts' curated work profiles (formerly XX new profile views). LinkedIn Premium members can now receive up to 1000 new profile views per month.

OBJECTIVE
• Daily digest of LinkedIn content tailored to member network insights to help members grow their business, network, and brand.
• Powered by intelligent agents and AI
• Delivered as a seamless listening experience < 2 mins.
• Call for Next Best Actions (NBA) to be taken on LinkedIn

AGENTIC SYSTEM

PERSONALIZED USER ENGAGEMENT

ETHICAL RESPONSIBILITY STATEMENT
Ensure user privacy and data security, and to utilize AI technology transparently and fairly, avoiding bias and maintaining user trust.

FUTURE WORK

- Engage individuals with User Preferences (RLHF).
- Extend Insights and Actions.
- Broaden User Segments, Gamify it.
- Enable Conversational Interactions.
- Integrate Feedback Mechanisms.

2. Project demo as part of a LinkedIn hackathon 2025 Colab Notebook

Key Takeaways

- Looking for contributing as AI engineering role
- Bringing expertise to build products that help humans, using human-centric AI
- Thank you for your time and attention!!

