

Internship Report: Research on Top AI Tools

Overview -

Now a days, there are so many wonderful AI tools that are present over internet. Selecting three out of these is very hard. So, I selected trending AI tools which I have been using for past few days.

- HeyGen AI tool for AI avatar generation
- NotebookLM AI tool
- Claude AI tool

Description -

1. HeyGen AI tool

Imagine creating a professional video without a camera, actors, or editing skills. HeyGen makes this possible with its AI-powered avatar generation.

- For example -

A businessman is busy in his professional work and want to create campaign videos without giving his presence. His team record a video > 2min length and submit it to avatar creator in HeyGen model which then trains that model on his video, gestures, voices etc. After training the model his team can post his AI generated videos using text inputs only. More data you feed to it, more accurate it will be. And trust me you can't even tell a difference.

- What do the tool do?

HeyGen is an AI-powered video generation platform that allows users to create professional-looking videos in minutes without prior video editing experience.

- Who use it and for what purpose?

The main users of HeyGen AI are video creators and marketing experts.

It negates the need for cameras, crews, or intricate editing software. The platform allows users to transform text into videos in minutes.

- key features and advantages

1. AI Avatar Video generation: HeyGen is an AI video generator that provides over 120 AI avatars, 300+ voices.
2. Realistic Avatars creation: Users can select from over 100 avatars of different ethnicities, ages and genders, or create their own custom avatars.

- Industry adoption and real world applications

1. Marketing: XynoTech, a software company, used HeyGen to create a product marketing video for their new CRM software.

2. Education: ACEI, a non-profit, created explainer videos for their website using HeyGen, which helped students to learn complex educational concepts.
3. Sales: Lenskart, a sales and marketing company, used HeyGen to create personalised sales outreach videos for their sales team, which helped them to generate more leads.

2. NotebookLM

- What do the tool do?

An AI-first notebook designed to enhance learning and research. NotebookLM uses uploaded documents to train a specialised AI, enabling users to summarise complex texts, answer questions based on the source material.

It can transform documents into study guides or podcasts.

- For example -

You are a researcher and you are very busy in your works. You have to read a long article, blog or research paper. It will take so much time. So, here you can use notebooklm AI which will take your article or blog as input and train its model based on that data. More data you feed to it, more accurate it will become.

After that, you can ask anything to it about the topic. It will act as a mentor to you. But it is not the best thing. The best this that you can generate a podcast on it where two people will be talking about your topic.

And believe me, the generated podcasts are so natural and amazing. You can also listen to your favourite horror stories.

- Who use it and for what purpose?

1. Learners: Can use NotebookLM to better comprehend and remember key details, enhancing learning.
2. Researchers: Can use NotebookLM for data analysis. It assists in projects or research by identifying intriguing connections.
3. Business professionals: Can use NotebookLM to efficiently process information, saving time on reading and summarising.
4. Content creators: Can use it to generate scripts for videos.

- key features:

1. Fast Summarisation
2. Question-Based Interaction
3. Podcast-Style Audio Summaries
4. AI-Generated Insights
5. Multi document Analysis

- Industry adoption and real world applications

Legal Sector: Legal professionals can use NotebookLM to summarise case documents, extract key information, and prepare legal briefs.

Learning and Education: NotebookLM is suited for students and educators.

Research: Researchers can use NotebookLM to analyse multifaceted data.

Business and Finance: NotebookLM can analyse financial data and generate reports.
Content Creation: NotebookLM can be used to generate scripts for videos or podcasts.
Writing and Editing: Writers can use NotebookLM to query their own writings.

3. Claude AI

- What do the tool do?

It is a newly emerging AI chatbot that can generate text and engage in conversations with users in a human-like way.

It is basically competitor of ChatGPT but is better than ChatGPT in many ways -

- faster answering to questions
- better visual representation of your questions.

- Who use it and for what purpose?

- Developers and coders use Claude for debugging, writing, and translating code.
- Customer support teams use Claude for real-time responses and handling complex queries.
- Professionals in finance and retail use Claude to interpret graphs and process visual data.
- Web developers use to directly visualize the data in chatbot itself.

- key features and advantages

Constitutional AI: Claude employs a unique AI training method called "constitutional AI," where ethical principles guide the model's outputs, reducing the likelihood of generating toxic, dangerous, or unethical responses.

Large context window: All three Claude 3 models can process approximately 200,000 words at a time, exceeding the capacity of GPT-4 and GPT-3.5.

Speed and efficiency: Claude 3.5 Sonnet is designed for speed, operating at twice the speed of Claude 3 Opus and excelling at tasks that demand rapid response.

- Industry adoption and real world applications

Customer Support: Claude AI offers real-time response capabilities, making it suitable for handling complex customer queries with speed and accuracy.

Content Creation: Claude AI is used to generate high-quality content, and rephrase and summarise information with ease.

COMPARISON

| Feature | HeyGen AI | NotebookLM | Claude |
|--------------------|---|--|--|
| Usability | simple interface, no video editing skills required | Simple & efficient, focus on summary and Q&A | User-friendly, chatbot-like interface, more humanly than GPT |
| Performance | High-quality avatar and video generation, but training takes time | Fast at summarization, but accuracy depends on input quality | Very fast responses, strong context understanding, outperforms ChatGPT |
| Industry Relevance | Marketing, education, sales, social media | Research, education, legal, finance | business, enterprises, general-purpose AI |