

AIDD 30-Day Challenge — Task 3

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Slot: Friday 6 to 9pm

PART A — Research Questions

1. What new improvements were introduced in Gemini 3.0?

Gemini 3.0 (November 2025) mein Google ne kayi bari tabdeeliya (updates) ki hain:

- **Behtar Reasoning:** Iski sochne ki salahiyat pehle se bohot tez hai. Yeh mushkil sawalon aur complex problems ko purane models (Gemini 1.5/2.5) se behtar samajhta hai.
- **"Deep Think" Mode:** Yeh ek naya feature hai. Mushkil math ya coding problems ke liye yeh model insaan ki tarah gehra soch kar jawab deta hai.
- **Vibe Coding aur Agents:** Coding ab "Vibe Coding" ke zariye aasan ho gayi hai (sirf idea dein, code ban jayega). Saath hi, yeh "Agents" ki tarah tasks plan aur complete kar sakta hai.
- **Multimodal:** Yeh text, images, audio, aur video sab ko ek saath samajh sakta hai.
- **Speed aur Performance:** Iske Pro aur Flash versions benchmarks mein doosre models se zyada fast aur behtar hain.

In Short: Gemini 3.0 zyada samajhdar hai aur mushkil kaam karne ke liye bana hai.

2. How does Gemini 3.0 improve coding & automation workflows?

Gemini 3.0 developers ke liye ek "game-changer" hai jo workflow ko tezi deta hai:

- **Vibe Coding (Idea se App):** Ab syntax ki fikar karne ki zaroorat nahi. Aap bas apna **idea** (vibe) dein, Gemini usay samajh kar pura functional code ya app bana dega. Yeh aapke iraday (intent) ko pakadta hai.
 - **Agentic Capabilities:** Yeh sirf code likhta nahi, balkay ek agent ki tarah kaam karta hai:
 - *Plan & Execute:* Bada task milne par yeh khud steps plan karta hai, files edit karta hai aur task complete karke report deta hai.
 - *Tools Use:* Yeh khud browser aur terminal use kar sakta hai.
 - **Debugging aur "Deep Think":** Agar code mein koi mushkil error ho, toh "Deep Think" mode gehrai mein ja kar problem dhoondta hai aur fix suggest karta hai.
 - **Multimodal Coding:** Kisi website ka screenshot ya video dikha kar aap bol sakte hain "Aisa same interface bana do," aur yeh uska code likh dega.
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3. How does Gemini 3.0 improve multimodal understanding?

Gemini 3.0 ki dekhne, sunne aur parhne ki taqat (Multimodality) ab insaanon jaisi hai:

- **Native Multimodality:** Yeh shuru se hi Text, Image, Audio, aur Video par ek saath train hua hai. Isliye yeh bina kisi conversion ke sab kuch direct samajhta hai.
 - **Video Understanding:**
 - *Long Context:* Yeh ghanton lambi videos dekh kar bata sakta hai ke darmiyan mein kya hua tha.
 - *Action:* Yeh video mein ho rahi movement aur actions ko bhi samajhta hai.
 - **Audio Processing:** Yeh lambi recordings (meetings/podcasts) sun kar shor (noise) ke bawajood accurate summary aur specific details nikal sakta hai.
 - **Visual Reasoning:**
 - *Math:* Hath se likhe hue (handwritten) math problems ko parh kar solve kar sakta hai.
 - *Screen Awareness:* Computer screen ya screenshots ko samajh kar us par kaam kar sakta hai.
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4. Name any two developer tools introduced with Gemini 3.0.

Google ne developers ke liye do khaas naye tools introduce kiye hain:

1. Google Antigravity (Naya IDE)

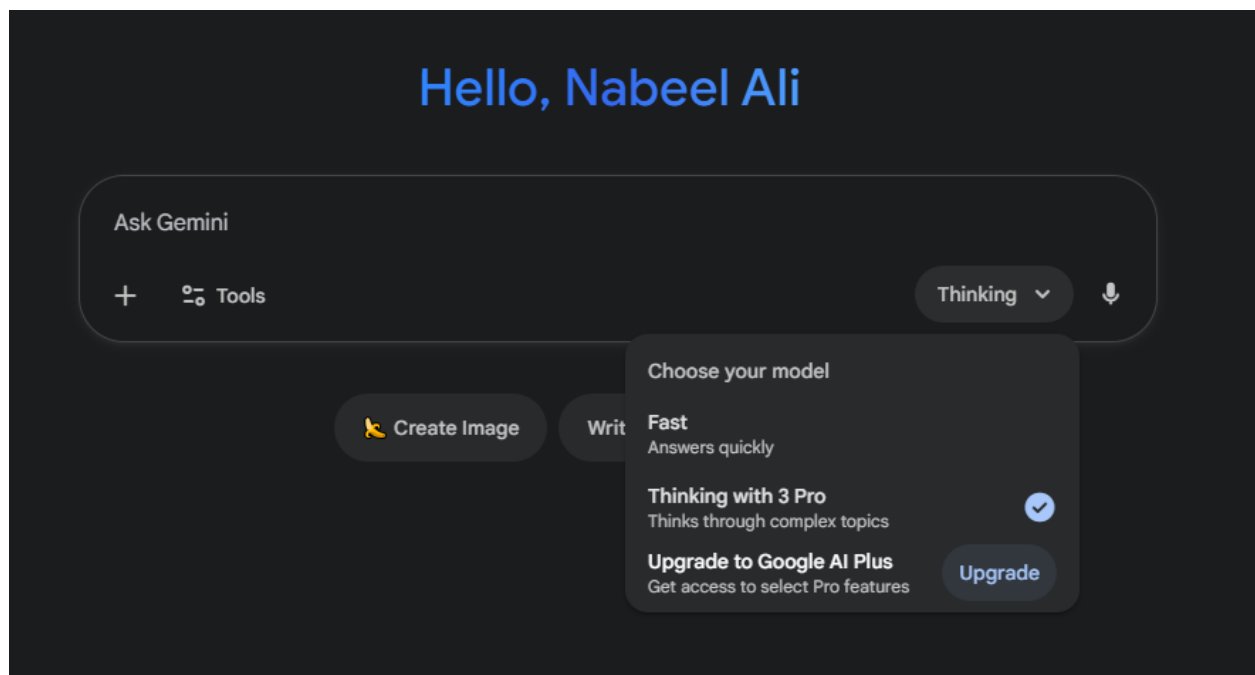
- **Kya hai:** Yeh ek special Code Editor hai jo "AI Agents" ke liye bana hai.
- **Kaam:** Ismein aap code type karne ke bajaye AI agents ko manage karte hain. Aap task dete hain aur agent khud files banata hai, terminal chalata hai aur testing karta hai.

2. Gemini CLI (Command Line Interface)

- **Kya hai:** Terminal ya Command Prompt pasand karne walon ke liye naya tool.
- **Kaam:** Ab aap terminal mein lambi commands yaad rakhne ke bajaye simple English mein Gemini se baat kar sakte hain (jaise "*Last commit undo kar do*"), aur yeh khud sahi command chala dega.

PART B — Practical Task

Update the Gemini 3.0 model



Using the `/model` command in Gemini CLI, update the Gemini model to the latest version (3.0).



```
> GEMINI

Tips for getting started:
1. Ask questions, edit files, or run commands.
2. Be specific for the best results.
3. /help for more information.

> /model

Select Model

Gemini 3 is now enabled.
To disable Gemini 3, disable "Preview features" in /settings.
Learn more at https://goo.gle/enable-preview-features

When you select Auto or Pro, Gemini CLI will attempt to use gemini-3-pro-preview first, before falling back to gemini-2.5-pro.

1. Auto
   Let the system choose the best model for your task.
2. Pro (gemini-3-pro-preview, gemini-2.5-pro)
   For complex tasks that require deep reasoning and creativity
3. Flash (gemini-2.5-flash)
   For tasks that need a balance of speed and reasoning
4. Flash-Lite (gemini-2.5-flash-lite)
   For simple tasks that need to be done quickly

To use a specific Gemini model on startup, use the --model flag.

(Press Esc to close)
```