Innovating the Future: AI, Tech & Chatbots Unleashed!

1. Perplexity AI

Perplexity AI is an AI-powered chatbot and search engine hybrid that focuses on delivering real-time, factual responses with proper citations. Unlike traditional AI chatbots, which rely on pre-trained knowledge, Perplexity actively searches the web to provide accurate and up-to-date information.

Key Features:

- **Web-Connected AI** – Unlike many chatbots that rely on static training data, Perplexity retrieves real-time information from search engines, ensuring the latest and most relevant answers.
- **Cited Sources for Transparency** – Every response includes linked references, allowing users to verify the information's authenticity. This helps prevent misinformation.
- **Concise Yet Informative Summaries** – Perplexity provides short and to-the-point answers while still capturing the essential details.
- **Interactive Search Refinement** – Users can modify or refine their search queries in an iterative conversation to get more precise answers.
- **Multimodal Support** – Supports text-based queries and is expanding into image-based search features.

2. Claude (Anthropic)

Claude is an AI assistant created by Anthropic, designed with a strong focus on safety, reliability, and ethical AI development. Built to be aligned with human values, Claude is a leading competitor to OpenAI's GPT models, offering intelligent, nuanced, and context-aware responses.

Key Features:

- **Long-Form Context Understanding** – Claude excels at handling long conversations and can process large input texts, making it great for summarizing research papers, analyzing documents, and drafting detailed responses.
- **Safety-Focused AI** – Developed with Constitutional AI principles, Claude is designed to reduce bias, avoid harmful content, and ensure responsible AI use.
- **Creative and Analytical Thinking** – Performs well in brainstorming, storytelling, coding assistance, and problem-solving, making it useful for both casual and professional applications.
- **Enterprise and API Integration** – Businesses can integrate Claude into their workflows for automated customer support, content creation, and more.
- **Memory-Like Recall (Limited Use)** – Retains conversational context for more fluid and intelligent discussions.

3. Mistral Chat

Mistral Chat is an AI chatbot powered by Mistral AI, a European AI company focused on developing open-weight, high-performance models. Unlike proprietary AI models from OpenAI and Google, Mistral embraces open-source AI, making it a popular choice for developers and researchers who want more control and customization.

Key Features:
- **Open-Source AI Model** – Mistral AI supports open-weight models, meaning developers and businesses can access and modify its AI, unlike closed models such as GPT-4 or Gemini.
- **Optimized for Efficiency** – Mistral is designed to be lightweight yet powerful, delivering high-quality AI performance with faster response times and lower computing costs.
- **Multilingual Capabilities** – Supports multiple languages efficiently, making it ideal for global users and businesses.
- **Developer-Friendly & API Support** – Offers an accessible API for integration into applications, AI research, and chatbot deployment.
- **Advanced Reasoning & Text Generation** – Performs well in coding, writing, and analytical tasks, similar to GPT models.

4. DeepSeek AI

DeepSeek is an AI chatbot and search assistant developed to provide intelligent, research-driven responses. It is optimized for complex reasoning, deep search capabilities, and detailed insights. Unlike general AI chatbots.

Key Features:
- **Hybrid AI Model with Search Integration** – DeepSeek combines AI-generated reasoning with real-time search capabilities, allowing users to get well-researched and validated answers.
- **Optimized for Technical & Academic Research** – Unlike general chatbots, DeepSeek is tailored for scientific queries, coding problems, and mathematical problem-solving.
- **Supports Long and Complex Queries** – Handles detailed and layered questions better than many AI chatbots, making it ideal for advanced research and technical writing.
- **Contextually Aware Responses** – Maintains strong contextual memory, allowing users to build upon previous interactions for more refined discussions.
- **Highly Accurate and Data-Driven** – Prioritizes factual accuracy by leveraging deep-learning models to generate high-quality answers.

Feature	Perplexity AI	Claude (Anthropic)	Mistral Chat	DeepSeek
Web Search	✅	❌	❌	✅
Cited Sources	✅	❌	❌	✅
Safety & Bias Control	✅	✅	⚠️	✅
Coding & Technical Support	✅	✅	✅	✅
Multilingual Support	✅	✅	✅	✅
Open-Source	❌	❌	✅	❌
Best For	Search + AI Answers	Creative & Safe AI	Open-Source Development	Technical & Research Queries

TECHX : PRODUCT SHOWCASE

The Department of Artificial Intelligence and Data Science hosted the TechX Product Showcase on September 27, 2024, It featured 35 students across 17 teams presenting innovative projects, including cutting-edge technologies like the DJI AIR3S drone, advanced graphics cards, and blockchain tools from companies such as Edba Academy, Tech Cryptors, and DataMango. The showcase aimed to enhance students' technical skills, presentation abilities, and professional communication through hands-on engagement with industry-grade tools, fostering collaboration and holistic growth.

TECHBLITZ

The 2nd Edition of TechBlitz, presented by VCET NSDC on March 21, 2025, was a great success! Innovators competed in three domains: Data Science using AI, UI/UX using AI, and LLM Integrated App Development. Participants analyzed datasets, designed user-friendly interfaces, and built AI models using tools like GPT and Llama. Cash prizes and trophies were awarded to the winners. The event saw enthusiastic participation, with teams showcasing their skills in a 2-hour challenge. We thank all participants, organizers, and sponsors for their contributions.

INDUSTRIAL VISIT

On September 30, 2024, our college students embarked on an industrial visit to Contentstack, gaining valuable insights into real-world applications of technology and innovation. The visit provided a unique opportunity to interact with industry professionals and understand the dynamic work environment at Contentstack. Students explored cutting-edge technologies and learned about the company's operations, fostering a deeper understanding of industry practices and trends. The experience was both educational and inspiring, enhancing their academic knowledge with practical exposure.

SEMINAR

On August 13, 2024, our college hosted an Expert Session on Career Guidance, providing students with invaluable insights into navigating their professional journeys. Industry experts shared their knowledge and experiences, offering practical advice on career planning, skill development, and job market trends. The session was interactive and engaging, allowing students to ask questions and gain personalized guidance. This initiative aimed to empower students to make informed career decisions and prepare for future challenges in the workplace. It was a highly enriching experience for all attendees.

STUDENT ACHEIVEMENTS

CULTURAL EVENTS

- Chinmay Satam secured 1st prize in the National Kavi Sammelan (Hindi) competition for the year 2024-25 in the Cultural category.
- Chinmay Satam achieved 2nd prize in the National Kavi Sammelan (Marathi) competition for the year 2024-25 in the Cultural category.
- Saloni Sutar won 1st prize in the National Zeal Duet Singing competition for the year 2024-25 in the Cultural category.
- Saloni Sutar secured 3rd prize in the National Reel Making Competition for the year 2024-25 in the Cultural category.
- Saloni Sutar achieved 2nd prize in the National Zeal Solo Singing competition for the year 2024-25 in the Cultural category.
- Saurabh Vishwakarma won 1st prize in the National Zeal Duet Singing competition for the year 2024-25 in the Cultural category.
- Saurabh Vishwakarma secured 3rd prize in the National Reel Making Competition for the year 2024-25 in the Cultural category.

TOPPERS

BE - SEM VII	
1. SHETTY AMULYA CHANDAYYA	9.45
1.KARANDE SAKSHI VINAYAK BHARATI	9.45
2. PATANKAR GAURAVI JAYANT	9.41
3. SINGH NEHA VINOD	9.32
TE - SEM V	
1.SHAGUN UPADYAY	9.45
2.ANKIT BARI	9.32
2.PRADEEP RATHOD	9.32
3.DYANESH PANCHAL	8.77
SE - SEM III	
1.PRANJAL PATIL	10
1.SHRAVNI RAUT	10
2.ARYAN KOLI	9.78
3.DEVENDRA GURAV	9.74
3.SHRUTI GAUCHANDRA	9.74

TECHNICAL EVENTS

- Sarvesh Surve secured 2nd prize in Datathon 3.0, NMIMS at the National level in the Technical category.
- Saurabh Vishwakarma, Harsh Tripathi, Pradeep Rathod achieved 2nd prize in Bhausaheb Vartak Polytechnic Codeverse 2024 at the National level in the Technical category.
- Viraj Oza achieved 2nd prize in Bhausaheb Vartak Polytechnic Codeverse 2024 at the National level in the Technical category.
- Pratham Nagar and his team emerged as the winners of the UI/UX Design Challenge at TechBlitz 2025.
- Konisha Thakare and her team secured the runner-up position in the UI/UX Design Challenge at TechBlitz 2025.
- Mohammad Ali and his team secured the runner-up position in the LLM Challenge at TechBlitz 2025.
- Sarvesh Surve emerged as the Track Winner at Quasar 3.0.
- The State Entrepreneurship Challenge was a four-month-long event designed to test and enhance the entrepreneurship skills of participants.

PLACEMENT

We are pleased to announce that 14 students from the 2024-2025 batch have successfully secured placements in esteemed organizations. This accomplishment reflects their dedication, skillset, and the institution's commitment to excellence in education and professional development.

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ALUMNI TALK

1. How was your experience during the initial years?

It was tedious in the beginning. However, one has to adapt and change according to the situation. It's a self-learning process in corporate where each individual is responsible for extra effort to get things done. Additionally, for the majority of you, you will be living all alone in a new city during this time. In each city, there are many positive aspects to be gained, and one should explore these aspects as well.

2. What personal characteristics do you feel are necessary to be a successful engineer?

To be a successful engineer, one must possess a combination of technical expertise and strong personal qualities. Problem-solving skills are essential, as engineers often face complex challenges that require logical thinking and innovative solutions. Creativity and adaptability play a key role in designing new technologies and improving existing systems, while continuous learning helps engineers stay updated in a rapidly evolving industry. Strong analytical and critical thinking abilities enable engineers to evaluate situations, assess risks, and make informed decisions. Additionally, effective communication and teamwork are crucial for collaborating with peers, presenting ideas, and working efficiently in a professional environment.

3. How has the college helped you prepare for your career?

College shapes your growth and prepares you professionally to face the competitive world. By diligently following academics, you gain confidence in your knowledge and skills. Additionally, it helps you develop a problem-solving mindset and adaptability.

4. What is your valuable suggestion to young engineer ?

A valuable suggestion for young engineers is to focus on continuous learning, embrace problem-solving, and develop both technical and soft skills. Stay curious, work on real-world projects, and build a strong network. Most importantly, adapt to new technologies and never stop innovating.

Mr. Karan Patra
BATCH OF 2024

Karan Patra, an alumnus of the 2023-24 batch of Vidyavardhini College of Engineering and Technology with a specialization in Artificial Intelligence and Data Science, currently works as an AI Engineer at Verdantis.

5. How did you prepare for placement/higher studies during your college time?

I prepared for placements and higher studies by focusing on core technical skills, aptitude, and interview preparation. I regularly practiced coding, problem-solving, and technical subjects relevant to my field. Additionally, I worked on projects, internships, and certifications to enhance my resume.

6. Lastly, any suggesstions/advice you'd like to give to the budding engineers?

To all budding engineers, my advice is to stay curious, keep learning, and embrace challenges. Focus on practical skills, hands-on projects, and real-world problem-solving rather than just theoretical knowledge. Develop strong communication and teamwork skills, as they are just as important as technical expertise.

Never stop exploring new technologies, networking with industry professionals, and staying updated with trends. Most importantly, believe in yourself, stay persistent, and enjoy the journey of innovation and growth!

YEAR IN REVIEW: AI & DS DEPARTMENT

TechZette, hosted by Vidyavardhini's College of Engineering and Technology, is a collaborative technical blog on AI, data science, and more, featuring articles from faculty, experts, and students. You can contribute your own articles too!

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