

EDUCATION

Indian Institute of Technology (IIT), Delhi New Delhi, India

B.Tech. - Chemical Eng.

July 2024 - June 2028

CBSE

New Delhi, India

12th:87.20%

10th:95%

2022 - 2024

TECHNICAL SKILLS

- Programming Skills: Python, SQL, Javascript,sckit-learn,pandas,numpy,ML,NLP
- Frameworks & Tools: React,Bootstrap,Flask,SpringBoot,three.js,Git,streamlit

SCHOLASTIC ACHIEVEMENTS

- Secured **2182 rank** in JEE-Advanced among more than **2,500,00** students who appeared in the exam - May, 2024
- Secured **99.59** percentile in JEE Mains among mora than **1,500,000** students who appeared in the exam - 2024
- Merit** Certificate holder in IOQM 2024
- Top 1%** in NSEP 2024 from Delhi region.
- JTSE Scholar with **AIR-210**

Projects

Point of Sale (POS) System

Winter DSOC - IIT DELHI

- Description:** Built a frontend interface for a POS system with distinct portals for admin and cashier users.
- Ranked 1** in Winter DSOC Frontend
- Admin Portal:** Enabled inventory management, sales tracking, cashier role assignment.
- Cashier Portal:** Facilitated quick billing with barcode scanning and receipt generation along with registering new/existing customers.
- Technologies:**HTML,CSS,Javascript,Bootstrap,three.js,

Synth -AI Powered Voice Agent for Document Understanding

Self Project

- Description:**Developed a voice-enabled AI assistant that processes PDFs and answers queries in real-time.
- Integrated **Google Gemini** (LLM & embeddings) with **LlamaIndex (RAG)** for document retrieval.
- Implemented **WebSockets** for real-time communication and **async processing** for efficiency.
- Tech Stack:** Python, AsyncIO, WebSockets, LlamaIndex, Google AI (Gemini).

Astronomy Photo of the Day Chrome Extension

Self Project

- Description:** Developed a Chrome extension that displays NASA's Photo of the Day, along with its description and details, directly in the browser.
- Frontend:** Designed an interactive popup to show the daily photo, with options for users to explore more information.
- Backend:** Integrated NASA's publicAPI to fetch the daily image and related data.
- Technologies Used:** HTML, CSS, JavaScript, Chrome Extensions.

Publications

- The research explores an astronomical theory discussing the conflicts and concepts of the dimensional world and its existence. It delves into advanced topics such as:
 - Dimensions
 - Quantum Physics
 - M-Theory
 - Multidimensional Network
 - The MultiverseThe theory aligns with experimentally proven phenomena like quantum entanglement, supporting the concept of the existence of “now” and the discovery of the Higgs boson, suggesting an underlying reality beyond space-time. The approach aims to use dimensional analogy to build a science that aligns with human perceptions and imaginations.

KV Janakpuri - Co-written with Sudhansu jha