

BRIEF SUMMARY

Motivated and growth-oriented Computer Science student with a strong foundation in web development, data analysis, and software development. Actively honing Data Structures and Algorithms to strengthen problem-solving skills for technical interviews and real-world application design. Passionate about building full-stack projects, leveraging data for insights, and contributing to scalable software solutions. Seeking opportunities in full-stack development, data-driven roles, and software engineering to grow as a versatile, job-ready developer. Practicing Data Structures & Algorithms on LeetCode with a focus on problem-solving and optimization.

KEY EXPERTISE

HTML5 CSS Javascript React.js MongoDB Node.js Express.js SQL Power BI Data Structures Python

EDUCATION

University Institute of Engineering and Technology

2022 - 2026

B.E. - Computer Science & Engineering | CGPA: 8.63 / 10

Stepping Stones School, Sec - 37D, Chandigarh, Chandigarh

2022

12th | CBSE | Percentage: 94.80 / 100

Doon International School, Sec - 69, Mohali, Mohali

2020

10th | CBSE | Percentage: 92.20 / 100

INTERNSHIPS

Maivrik Labs, UIET

05 Jun, 2025 - 15 Jul, 2025

Key Skills: Python Javascript HTML5 CSS FastAPI Hugging-Face Models PostgreSQL Git Pipelines

Built a full-stack AI chatbot that generates personalized avatar videos in response to user queries. Integrated Mistral via Ollama for context-aware answers, XTTS v2 for text-to-speech, and SadTalker for lip-synced avatar video generation. Designed a seamless pipeline and deployed it through a responsive web interface for real-time user interaction under the guidance of Dr. Akashdeep Sharma.

PROJECTS

Customer Churn Analysis

Team Size: 1

Key Skills:

Python PostgreSQL Pandas NumPy Scikit-Learn Power BI Machine Learning Data Analysis Data Cleaning
EDA Business Analytics SQL

Project Link: https://github.com/Hridyansh30/Telco_Customer_Churn_Analysis

Conducting end-to-end data analysis on a customer churn dataset to identify key factors influencing customer retention and attrition. Performing Exploratory Data Analysis (EDA) using pandas and NumPy to uncover customer behaviour trends. Designing interactive dashboards using Power BI to visualize churn patterns, segment-wise analysis, and retention strategies. Using predictive machine learning models (Logistic Regression, Random Forest, Decision Trees) using scikit-learn for churn prediction. Writing optimized SQL queries for data extraction, transformation, and aggregations to support analytical insights. Focused on deriving actionable business recommendations to reduce churn rates and improve customer lifetime value.

Personal Portfolio Website

Team Size: 1

Key Skills:

HTML5 CSS Javascript ReactJS NodeJS Express.js MongoDB GIT AI Ollama Npm AOS JWT
NodeMailer Recharts

Project Link: https://github.com/Hridyansh30/Personal_Portfolio

Designed and developed a responsive, scrollable portfolio website using the MERN stack to showcase projects, skills, and experience. Integrated a modern admin dashboard with secure JWT authentication for dynamic content management, allowing real-time updates to projects, skills, and contact messages via a custom backend. Added advanced AI-powered features, including an intent detection

system to classify contact form queries and a smart AI assistant for personalized project recommendations. Implemented animated sections, dark/light mode toggle, and interactive UI with CTA-based navigation, focusing on clean aesthetics, responsiveness, and performance across all devices.

PERSONAL INTERESTS / HOBBIES

- o Fitness
- o Reading
- o Music
- o Travel

PERSONAL DETAILS

Gender: Male	Date of Birth: 30 Nov, 2004
Marital Status: Single	Known Languages: English Hindi Punjabi
Current Address: #503, Ivory Villas, VIP Road, Zirakpur, Mohali, Punjab, India - 140603	Phone Number: +91-7658085814
Email: hridyanshkatal@gmail.com	