

Education

Mohali, Punjab	Chandigarh University	09/2022 – 07/2026
<ul style="list-style-type: none">• Major: B.E CSE AIML (CGPA: 8.91)• Certificate (Minor): Data Science, Machine Learning in Python, JavaScript• Programming Coursework: Algorithms & Data Structures, Operating Systems, Database Management Systems, Networking• AIML Coursework: Predictive Analytics, Soft Computing, Machine Learning, Artificial Intelligence		

Employment

Data Science, Intern	Internshala (Online)	08/2024 – 10/2024
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Customer Preference Prediction: **Sales Data Analysis**

- Analyzed 5,000+ sales records using **Excel** and **Tableau** to uncover key insights.
- Designed **visual dashboards** to enhance **stakeholder decision-making**.
- Built **logistic regression models** predicting customer preferences with **85% accuracy**.
- Applied **machine learning algorithms** to classify customer behavior and drive **targeted strategies**.
- **Forecasted sales trends** via **moving averages**, improving **inventory planning** by **20%**.

Full Stack Web Developer, Intern	Meta Course (Online)	06/2024 – 08/2024
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Sitara (<https://sitara01.vercel.app/>) : User-friendly subscription platform website

- **Streamlined load time** by **50%**, boosting **user satisfaction** and increasing **session duration**.
- **Integrated Stripe** and **Email.js**, enabling **100+ secure transactions** during rollout.
- **Deployed a real-time user dashboard** for **200+ subscribers**, improving **retention by 25%** through **personalized content**.
- **Delivered** personalized content recommendations, leading to a **30%** rise in user interaction.
- **Improved session duration** by **2x** through enhanced engagement and faster performance.

Software Projects

Personal Website: <https://harshalpatel1972.github.io/FirstDevelopment/> (for additional information and projects)

Swasth.AI (<https://health-guidance-app.vercel.app/>)

- **Engineered** an AI health recommendation tool, boosting **engagement by 30%** with **personalized recommendations**.
- **Integrated Hugging Face API** for **NLP-based chat**, increasing **user satisfaction by 40%** with **conversational health guidance**.
- Conducted **user feedback analysis**, driving **data-driven improvements** and enhancing **usability by 25%**.
- Utilized: **Python, Flask, Hugging Face API, Machine Learning, Data Analysis.**

Handwritten Digit Recognition

- **Devised** a hybrid model using **CapsNet** and **MobileNet**, achieving **99.21% accuracy** in digit recognition.
- **Crafted and optimized** CapsNet for **low-power devices**, improving **performance by 15%** over benchmarks.
- **Executed MobileNet** as a feature extractor, enhancing **inference speed by 20%** through lightweight architecture.
- Key Tools: **Python, TensorFlow, CapsNet, MobileNet, Data Augmentation, Model Optimization.**

Portfolio Website and Web Games (<https://harshalpatel1972.github.io/FirstDevelopment/pigGame/index.html>)

- **Designed and developed** a personal portfolio and **interactive web games** to showcase **programming skills**.
- **Configured a responsive website** using **HTML, CSS, and JavaScript**, increasing **site visits by 40%**.
- **Refined game performance** with code optimization, reducing **load time by 50%** and boosting **user satisfaction**.
- Tech Stack: **HTML, CSS, JavaScript, React, Node.js, Git.**

Activities

- **Team Lead, SIH 2023** – Led a national innovation team at Chandigarh University.
- **Blockchain Project Lead** – Established [MedChain Authenticator](#) using **Polygon, CNN, and OCR**.
- **Workshop Attendee** – Completed certified workshops in **Data Science, Machine Learning, and Blockchain**.

Skills

Software:

- Proficient: **C++, HTML/CSS, JavaScript, Git**
- Familiar: **Python, SQL, C, C#, Bash**

Interpersonal:

- **Analytical Troubleshooting**
- **Team Collaboration**
- **Client-Centric Negotiation**
- **Agile Workflow Coordination**