

# YUVRAJ SINGH CHAUHAN

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[Yuvraj-Chauhan](#)

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Rajasthan, India

## Education

### Bachelor of Engineering (B.E.) in Computer Engineering

Thapar Institute of Engineering and Technology, Punjab

Aug 2021 - Present

CGPA: 8.28/10

### Higher Secondary Education (Class 12th)

Gurukul B.L. Mohta Learning Institute, Rajasthan

Jul 2020 - Jul 2021

Percentage: 95.2%

## Work Experience

### Summer Internship at Barclays, Pune

Jun 2024 - Jul 2024

Technology Summer Intern in Enterprise Data Platforms

- Developed a **Data Analytics Housekeeping Automation Utility** using **Python** and **Jenkins** with detailed **Jira** and **Confluence** documentation, **reducing manual effort by 90%**.
- Acquired foundational knowledge in **Data Engineering, Big Data Technologies, Analytics Clusters**, and **Cloudera Manager** over a span of 2 months.
- Contributed to **open-source** development for **Hadoop Distributed File System (HDFS)** architecture on **UNIX-based servers**, boosting system performance and scalability by 4%.
- Collaborated in developing a **framework** for **generating vector embeddings** from **unstructured data**, enabling **Generative AI** applications across **10+ use cases**.

## Projects

### PhishGuardian

- Innovated a **Phishing Website Detection Web Application** using **Machine Learning**, which **classifies a website** as **Phishing** or **Legitimate** based on its **content-based features** with **98% F1-Score**. [Web App](#) | [Source Code](#)
- Created a **custom dataset** with **43 content-based features** after **web scraping 50,000 websites**. [Kaggle Link](#)
- Tech Leveraged: Python, Scikit-learn, Streamlit, Firebase (Pyrebase), BeautifulSoup, Pandas, Numpy, etc.

### EchoDoc

- Engineered a real-time **Retrieval Augmented Generation (RAG) App** for **document search and question answering**, using **Vector search and Llama 3.2** to **retrieve and generate contextual information**. [Source Code](#)
- Enable users to upload PDFs, create embeddings, store them in a vector database, and **deliver context-aware answers** through a **Chatbot** powered by an on-premise **Quantized 3 Billion Parameter Model** via **Ollama**.
- Tech Leveraged: Transformers, LLM, NLP, Deep Learning, Hugging Face, LangChain, Python, Streamlit, Docker, etc.

## Technical Skills

**Programming Languages & Development:** Python, C++, C, Dart, Streamlit, Flutter, HTML, Tailwind CSS, Object-Oriented Programming.

**Artificial Intelligence & Data Science:** Machine Learning, Deep Learning, Natural Language Processing, Transformers, Hugging Face, LangChain, TensorFlow, Scikit-learn, Computer Vision.

**Data Engineering & Big Data:** Hadoop, Hive, Impala, Cloudera Manager, PostgreSQL, DBMS.

**DevOps & Other Technologies:** Jenkins, Git & GitHub, Docker, Google Firebase, REST API, UNIX, Operating Systems, Data Structures & Algorithms, Computer Networks, Software Engineering.

## Roles and Responsibilities

### Microsoft Learn Student Chapter

Dec 2021 - Jul 2023

CORE Member

- Spearheaded **Makeathon 5.0** with **300+ teams** as CORE Member of Microsoft Learn Student Chapter. [Certificate](#)

### Saturnalia Event Management Team

Aug 2022 - Nov 2022

CORE Member

- Organized **Saturnalia**, TIET's annual **Techno-Cultural Fest** with **15,000+ students** from across India.

## Achievements

- Amazon ML Challenge 2024** - **Ranked Top 20** out of **20,000+ teams** participating across India. [Certificate](#)
- Hacklipse 3.0 Winner FinTech** - among **250+ teams** at a 2023 Hackathon organized by ACM. [Certificate](#)
- Earned Certifications** - [LLMs in Python](#) | [AI on Jetson Nano](#) | [CUDA Python](#) | [CUDA C++](#) | [Scaling Workloads](#)
- Completed **Google Cloud Ready Facilitator Program 2022** with **15 Skill Badges** and **30 Quests**. [Badge Profile](#)