

Divyanshu Tewari  
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#### ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks(%)
Aug, 2022 - Jun, 2026	B.Tech in Computer Science	Graphic Era Hill University Bhimtal	8.74 CGPA
2022	Intermediate (C.B.S.E)	Beersheba Senior Secondary School	90.00 %
2020	High School (C.B.S.E)	Beersheba Senior Secondary School	92.50 %

#### PROJECTS

- **Just In Time Compiler** : Developed a Just-In-Time compiler in Python using PLY (Lex/Yacc) for parsing and tokenizing expressions, featuring a lexer, parser, and code generator that translate high-level expressions into the x86\_64 assembly. The compiler dynamically allocates memory for strings, optimizes stack usage, and executes generated machine code via a GUI built with Tkinter.
- **AI-Medical-Chatbot-Using-LangChain-And-Chainlit** : Developed an interactive AI medical chatbot using LangChain and Chainlit, leveraging Llama-2-7B for intelligent responses and FAISS for efficient document retrieval. Implemented a Retrieval-Augmented Generation (RAG) pipeline to provide accurate, context-aware answers from PDF-based medical knowledge sources. Designed a user-friendly chat interface with real-time query handling and dynamic response generation.
- **Host Intrusion Detection System** : Designed and implemented a Host-based Intrusion Detection System focused on monitoring system logs and detecting suspicious activities. Applied techniques such as signature-based and anomaly-based detection, and improved system resilience against common cyber threats.

#### TECHNICAL SKILLS

- **Languages** : C , C++ , Java , Python , HTML , CSS , SQL , PHP
- **Frameworks** : React.js , , Bootstrap
- **Tools** : Git , GitHub , MySQL , MongoDB

#### STRENGTHS

- **Determined**
- **Ability to work independently and in a team environment**
- **Passionate about building efficient and scalable applications**
- **Positive attitude towards feedback and learning**
- **Patience and persistence in solving complex problems**

#### COURSES

- **The Complete C++ Programming Course (Udemy)**
- **Fundamentals of Cloud Computing (Udemy)**
- **Build Responsive Real-World Websites with HTML and CSS (Udemy)**
- **The Complete Python Bootcamp from Zero to Expert (Udemy)**
- **Complete SQL Bootcamp (Udemy)**