Garvit

UG (III Year II Semester)
B.Tech. (Engineering Physics)
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Registration No: 22123015/2025

Indian Institute of
Technology
Roorkee

VERIFIED

Area of Interest

Machine Learning, Artificial Intelligence, Deep Learning, Data Structure and Algorithms

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2024	B.Tech. 3rd Year	Indian Institute of Technology, Roorkee	8.398
2021	Intermediate (Class XII)	Ved Model Sr. Sec. School Kalanaur Rohtak Haryana	95.60 %
2019	Matriculate (Class X)	Ved Model Sr. Sec. School Kalanaur Rohtak Haryana	93.40 %

Internships

AI Developer Intern | Nimrobo AI Pvt. Ltd.   January 2025 - Present
- Enhanced a chatbot Chrome extension by implementing features using React, JavaScript, and web scraping tools for dynamic HTML content extraction.
- Added features to improve data extraction and processing, optimizing the extensions efficiency.
- Leveraged OpenAI's API to generate real-time, context-aware responses, enhancing user interaction and usability.
- Worked on a research tool leveraging AI agents, focusing on automating information structuring and organization.

Summer Research Internship | Indian Institute of Technology,Roorkee   June 2024 - July 2024
- Developed a TensorFlow model for 3D cell segmentation in microscopy, achieving a Dice coefficient of 0.8917.
- Automated preprocessing for over 1,500+ 3D images, streamlining the workflow and enhancing efficiency.
- Improving the signal-to-noise ratio significantly boosted image quality and image analysis accuracy.
- Fine-tuned hyperparameters and optimized training processes, leading to more reliable segmentation results

Projects

Multiple PDF Chatbot | ACM   November 2024 - December 2024
- Implemented **backend functionality** using **PyPDF2** for efficient **text extraction** and **LangChains CharacterTextSplitter** for optimized **document chunking**
- Integrated **OpenAI GPT** with a **ConversationalRetrievalChain** to provide **real-time, context-aware responses**
- Built a **scalable vector store** with **FAISS** for **fast semantic search** across large **PDF datasets**
- Designed an **intuitive frontend** using **Streamlit** to allow users to **upload and query PDFs effortlessly**

Stock Sentiment Analysis | Finance Club , IIT Roorkee   May 2024 - June 2024
- Developed a **stock sentiment analysis system** using **web scraping** (**BeautifulSoup, Scrapy**) to extract data from **NYT archives, SEC filings, and Yahoo Finance**
- Built a **predictive model** with **XGBoost** (**AUROC = 0.82**) achieving **959.06% total returns, Sharpe Ratio of 5.19, and 64% win ratio**
- Deployed an **interactive Streamlit dashboard** for **real-time stock sentiment visualization and analysis**

Neural Style Transfer | ARIES (Artificial Intelligence and Electronics Society) , IIT Roorkee   May 2024 - June 2024
- Implemented Neural Style Transfer and Produced a visually appealing composition of image content with different styles.
- Applied **VGG19** model for combining features extracted from a content image with the stylistic features of style image.
- Used preprocessing, content, style loss functions, and optimization algorithms to refine the synthesized image iteratively.

Awards / Scholarships / Academic Achievements

- Secured AIR **4159** in JEE Advanced 2022 among all the appeared **1.5 lakh** Candidates
- Secured AIR **5831** in JEE mains 2022 among all the appeared **12 lakh** Candidates
- Awarded with Smt. Pyaari Bai and Shri Badri Prasad Memorial Scholarship in IIT Roorkee
- Cracked Facebook Meta Hacker Cup Round 1 and selected for Round 2
- Achieved a Global Rank of **159** in Code Chef Starters 112 Division 4

Skills

Computer languages	Python , SQL, C++
Software Packages	Google Colaboratory , GitHub, VS Code , TensorFlow , Keras , Hugging Face , Langchain , Crew AI
Additional Courses	Machine Learning and Deep Learning , Optimization Techniques
Languages Known	English , Hindi

Positions of Responsibility & Extra Curriculars

Placement Coordinator | Placement and Internship Cell , IIT Roorkee   May 2024 - Present
- Engaged with **200+** companies to gain insights into industry demands and facilitate student upskilling
- Enhanced processes by automating company onboarding and information transfer, reducing errors and saving time
- Managed the end to end process of **50+** companies and garnered **30+** JAFs
- Amended & optimized the slot system, resulting in a **20%** surge in company participation & a **5%** rise in lucrative offers

Under Graduate Teaching Assistant(UGTA) | Academic Reinforcement Program   September 2024 - November 2024
- Mentored students in EEE-101 as an Academic Support Mentor. Provided essential academic assistance and strategic exam preparation advice.

Competitive Progamming Judge | Online Judges   June 2023 - June 2024
- An active participant of contests organized on coding platforms like Codeforces(Maximum Rating -1429, specialist Rank , Handle - garvit_2004),Code Chef(Maximum Rating -1689, 3-Star , Handle - garvit55), Leetcode (Handle - garvit__55),Coding Ninjas (Handle-Garvitjuneja)