



Adarsh Shukla

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B.Tech Engineering Physics

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EDUCATION

Degree/Certificate	Institute/Board	Year
B.Tech.	Indian Institute of Technology Roorkee	2022 - 2026
Intermediate	BBS International School Prayagraj	2020 - 2021

EXPERIENCE

- CCSB Labs** March 2024 - May 2024
Machine Learning Research Intern IIT Roorkee
 - Designed TensorFlow/Keras model for 2D and 3D cell segmentation in microscopy images, achieving **91%** precision
 - Automated preprocessing of **12,000+** 3D images, enhancing signal-to-noise ratio by **28%** and reducing processing time by **32%**.
- DEFSYS PVT. LTD.** May. 2024 - Jul. 2024
Software Developer Intern Gurgaon(Remote), India
 - Built an **AI assistant** for **demo scheduling, interview screening, and payment follow-ups** using Flask, Streamlit, and Google Gemini AI, supporting voice and text interactions in Hinglish.
 - Integrated **Google Calendar API** for automated scheduling and **Gmail SMTP** for payment follow-ups, ensuring seamless communication. Developed a **real-time AI interviewer** that generates dynamic questions, conducts sequential questioning, and evaluates responses.
 - Optimized workflows using **LLM-based agent prompting**, enhancing response accuracy and context awareness.
- Awesome Advertising** August 2024 - September 2024
Financial Analyst Intern Delhi(Remote), IIT Roorkee
 - Built a financial report generator using Financial Modelling Prep API, and stored it in CSV for further analysis.
 - Developed RAG architecture with **Langchain, Falcon 7B LLM Architecture**, and **Vector DB** for data handling.
 - Generated a financial report for MSFT with FY2024 revenue of **0.245 trillion**.

PROJECTS

- RAG with Optimization** April 2024-May 2024
DSG (Data Science Group), IIT Roorkee GitHub
 - Built an AI chatbot to query multiple PDFs using **Google Gemini Pro, FAISS**, and **LangChain**.
 - Integrated **speech-to-text** and **Streamlit UI** for real-time voice and text-based queries.
 - Optimized text retrieval with **Google AI embeddings, text splitting**, and **PyPDF2**.
- Stocks Sentiment Analysis** May 2024-Jun 2024
Finance Club, IIT Roorkee GitHub
 - Developed a machine learning model to forecast stock movements using sentiment analysis of financial news headlines, achieving a **65%** accuracy rate and enhancing trading strategy profitability by **20%** in simulated environments.
 - Evaluated model with accuracy, precision, recall, F1-score, ROC curves, and AUC. Simulated trading strategy with a **\$100,000** portfolio. Web Scraped **1000+** news headlines and used NLP for feature extraction.
- WebBot - Custom Chatbot for Course Recommendation** May 2024-June 2024
IIT Roorkee GitHub
 - Built a **Flask-based chatbot** using LangChain to extract, store, and retrieve course data from Brainlox.
 - Used **BeautifulSoup** for web scraping, FAISS for vector storage, and MiniLM-L6-v2 embeddings for retrieval.
 - Integrated Facebook-BART for response generation and deployed a **RESTful API** with a HTML/JS frontend.

ACHIEVEMENTS

- Secured AIR - **8326** in JEE Advanced 2022 among 1.56 lakhs students appeared.
- Achieved a highest rating of **1234 (Pupil)** at Codeforces, the top platform for competitive programmers.
- Certificate of Merit for being among top **0.1%** candidates in Mathematics in CBSE Secondary School Certificate Examination (2019).

PROFILE LINKS

- Github
- Portfolio
- Codeforces
- Leetcode
- LinkedIn

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, SQL, MATLAB.
- **Software Packages:** TensorFlow, Numpy, Pandas, Seaborn, Google Cloud, MS Office, LLM, RAG, NLP, Git, Streamlit, MongoDB, Flask, FAISS, HTML, CSS, Javascript
- **Relevant Coursework:** Data Structures and Algorithm, Object Oriented Design, Machine Learning Specialization, Deep Learning
- **Languages Known:** English (SRW), Hindi (SRW)

EXTRA CURRICULARS

Vice Chairperson, CIG IIT Roorkee: Facilitated collaborations, organized industry-academia interactions. Organized events like Uttarakhand Udyog Mahotsav (Startup Expo), Uttarakhand Plastic Summit, and National Tech Day.

Placement Manager, PIC IIT Roorkee: Coordinated with 150+ companies for campus recruitment, benefiting 1500+ students, and managed 50+ end-to-end recruitment drives. Acted as a liaison between students and the institute.
