

RISHAB MAHATO

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Personal Info:

My date of birth is: 16 May 2003

My name is Rishab Mahato.

I live in Kolkata, West Bengal.

Rishab is highly interested in Machine Learning and Deep Learning. Currently I'm learning about LLMs and am very keen to know their architecture, history, etc.

Rishab's main goal is to constantly upskill himself. "Change is the only constant" is something that he believes in. Upskilling myself every day, being a better version of myself every day is what keeps pushing me further.

I believe time management is very important in any individual's life. Balancing between college studies, DSA, development is demanding and sometimes it does take a toll on me, but eventually you become used to it.

My motivation comes from the fact that I get to build real world applications, and in this technology driven world these innovations play a crucial role.

My philosophy is that, I don't want to get stuck in my comfort zone. I want to keep pushing my limits.

Anecdote: "I feel like it's better to know things that we don't know, rather than not knowing about it. It always makes me a bit overwhelmed and not get carried away. No matter how much you learn there is always something new and interesting waiting to be discovered by you."

My daily routine: I wake up around 9 in the morning, solve 2-3 DSA problems. Then in the evening go out to play, or watch a movie/show. In the night I work on projects or study about ML, DL.

In the free time, I like to play outdoor games like football or badminton. Sometimes I play video games like Valorant.

My friends and family are my constant source of motivation, they always make me feel better even if I'm having a bad day.

My career goals after completing B.Tech is to join a firm wherein I can leverage my skills and upskill myself.

My strengths are :

- I am a team player.
- I am a quick learner. I can learn new things quickly and apply them.
- I have good communication skills, and am able to present myself with confidence and clarity in both written and verbal formats, enabling effective collaboration and the conveyance of ideas in a

compelling manner.

My weaknesses are :

- I used to struggle with time management, it was challenging for me to juggle college studies with coding and development. Having a proper routine, consistency and discipline has helped me overcome that issue.
- Sometimes I get carried away with the work I am currently doing, which at times takes a toll on me. Taking breaks at intervals, helps me refresh and energize myself.

EDUCATION College Name: Currently studying in Vellore Institute of Technology, Vellore

Degree pursuing: B.TECH Computer Science CGPA: 9.60

School Name: Delhi Public School, Ruby Park

12th Percentage: 95.8%

10th Percentage: 92.8%

Technical skills Languages: C,C++, Python, Java, SQL, Frameworks: Numpy, Pandas, Matplotlib, Seaborn, Tensorflow, OpenCV, Neural Networks, CNN, NLP, Platforms: Web, Windows, Android

I personally prefer C++ for DSA related tasks and python along with the frameworks and modules for ML related tasks.

I have done/worked on projects like Real Time Emotion Sentiment model, Extension of News based on Keywords, Breast Cancer Detection using CNNs, Weather Forecast ML Model. Currently I am not working on any project.

1. Project Name: Portfolio chatbot. Tech stack used: Google Palm LLM, Lang-chain, FAISS vectordb, Stream-lit.

2. Project Name: Extension of news based on keywords. Tech stack used: Spacy, Python, FAST-API, HTML, CSS, JavaScript.

3. Project Name: Real time sentiment analysis. Tech stack used: CNNs, Python, Numpy, Pandas, OpenCV

I faced a few challenging problems while working on these projects. While creating the extension for news, I had to build an API endpoint for which I had to learn about FastAPI and

APIs in general. Another problem I faced was during the transfer learning which I used to fine tune the MobileNetv2 model.

The most challenging project that I have worked on has to be the personal chatbot, since learning NLP, LLMs, Streamlit, deployment was not easy. I got to learn a lot of things.

I also try to keep myself updated with the latest trends and technologies. I am currently reading about the new LLM launched by Google which is Gemini. It also became the first model to surpass human experts on MMLU.

The field of LLMs and Machine Learning as such is growing every single day. New models, architectures are being invented which are now even surpassing human capabilities. I feel overwhelmed to be a part of this paradigm change.

I haven't yet contributed in any Open source project as yet. However, I look forward int contributing to it in the future.

I had participated in Smart India Hackathon 2023.

Certifications that I have are: Stanford University Supervised Machine Learning: Regression and Classification, Advanced Learning Algorithm, Unsupervised Learning, Recommenders and Reinforcement Learning

Work Experience: Program Representative Currently Serving as the Program Representative for my batch from 2022 onwards. Contributed for the successful conduct of the programme related activities of School of Computer Science and Engineering during my tenure.

I will be joining as a Software Development Engineer intern at "AMAZON" from July 2024 onwards.

Extra-Curricular Currently active core member of Indian Society of Technical Education (ISTE) VIT Vellore. Successfully conducted a workshop on Machine Learning under ISTE.

Through this event that was conducted by ISTE I got an opportunity to guide my fellow juniors and gave them a hands on experience of building a machine learning project from scratch.

HONOURS AND AWARDS MERIT SCHOLARSHIP Awarded Merit scholarship during the academic year 2021-22 and 2022-23 for the Outstanding Performance in the academics.

