

Vaibhav Singh

B.Tech and M.Tech Computer Science & Engineering
National Institute Of Technology, Hamirpur

+91-9628226386
vaibhav.vg12@gmail.com
Leetcode Profile
LinkedIn Profile

EDUCATION

- **National Institute Of Technology, Hamirpur** 2019-2024
B.Tech + M.Tech, Computer Science and Engineering CGPA: 8.28
- **VidyaGyan Sitapur** 2018
Senior Secondary School (XII), CBSE Percentage: 94.6
- **VidyaGyan Sitapur** 2016
Secondary School (X), CBSE CGPA: 10

EXPERIENCE

- **Infosys Limited** July 2024 - Present
Specialist Programmer L2 Bangalore
 - Developed an **agentic framework** for a learning platform, leveraging **LangGraph, LangChain**.
 - Implemented features for dynamic course retrieval, personalized quizzing, learning planner and conversational task automation.
 - Utilized LLMs, tools, and function calling to streamline user interaction and improve learning outcomes.
 - Contributed to increased user engagement and enhanced learning efficiency.
- **Bosch Global Software Limited** Jan 2024 - June 2024
Student Trainee Bangalore
 - Worked on **ADAS** vehicle parking feature.
 - Resolved the harsh breaks in vehicles when faced with obstacles.
 - Implemented the **PID controller** class for smooth breaking in C++
 - Improved the efficiency of Localization while parking using the Kalman Filter from **80% to 95%**.
 - Extended the design for object detection to increase the success rate of successful parking.

PERSONAL PROJECTS

- **Language Translator** July 2022- Apr 2023
NMT based language translator for eng-hin translation
 - NMT based language translator for ENG-HINDI translation, achieving an 16-point BLEU score.
 - Developed it using OpenNMT, Anaconda, and Google Colab.
 - Trained a Long Short-Term Memory (LSTM) algorithm to refine model accuracy.
 - Presented final results in a submitted research paper.
- **Health Appointment**
Helps in getting appointment of the Doctor
 - Developed a complete web application from scratch for users to book appointments with doctors , or a user can apply as a doctor.
 - Designed and implemented an intuitive admin panel to manage users and doctor approvals efficiently.
 - Implemented user roles to differentiate between regular users and doctors, allowing users to apply for doctor status and administrators to approve doctor applications.

TECHNICAL SKILLS AND INTERESTS

Languages: C++, Python, SQL, Spark, PySpark
Backend: Kafka, Hadoop, Azure, AWS
Developer Tools: Git, VS Code, Jupyter, Colab, PostMan
Areas of Interest: Software Development, Artificial Intelligence, Generative AI, NLP

ACHIEVEMENTS

- **Gate 2023** Qualified the gate examination 2023
- **JEE Mains** Secured All India Rank under 10k 2019