

# Shifa Sheikh

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## Education

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### VIT Bhopal University

B. Tech in Computer Science and Engineering

Cumulative GPA: 8.58/10

12<sup>th</sup> Standard

### The Aditya Birla Public School

CBSE Percentage: 92%

10<sup>th</sup> Standard

### Alpine Public School

CBSE Percentage: 92.6%

Bhopal, Madhya Pradesh

2022-2026

Raipur, Chhattisgarh

2021-2022

Solan, Himachal Pradesh

2019-2020

## Projects

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### CodeTrack

Nov 24-Feb 25

- Engineered a full-stack authentication system with Node.js, Express, and MongoDB for secure user management.
- Created dynamic heatmap calendars with D3.js, ReactJs to visualize LeetCode and Codeforces activity, integrating real-time API data fetching.
- Developed an interactive consistency graph for LeetCode and Codeforces using D3.js, ReactJs with real-time data integration, sorting, filtering, and responsive design.

### Dynamic Route Optimization for Delivery Using Predictive Traffic Adjustments

Aug 2024

- Engineered a machine learning model to predict traffic speeds based on real-time features like weather and traffic data.
- Integrated predicted speeds into a dynamic optimization algorithm to adjust delivery routes efficiently.
- Reduced delivery delays and operational costs by optimizing routes in response to predicted traffic conditions.

### Diabetes Prediction Model

Feb 2024

- Preprocessed and analyzed medical dataset to extract meaningful features
- Trained and tested the model using multiple algorithms
- Achieved 95% accuracy in predicting diabetic and non-diabetic cases.
- Used Python, Pandas, scikit-learn, and Jupyter Notebook for model development and visualization.

## Achievements

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- Solved more than 250 DSA problems on platforms like LeetCode, Coding Ninja and GeekforGeeks.
- Actively participated in Microsoft Learn Student Ambassador Program, completed Azure Fundamentals, and advanced to Alpha level.
- 3X badges on Microsoft Learn.
- 5 stars in Python on HackerRank.
- Anchored the Code Garuda college coding competition as part of the management team, ensuring seamless event progression

## Additional

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**Technical Skills:** C++, Python, Java, HTML/CSS, JavaScript, MongoDB, SQL(MySQL),

**Framework:** Bootstrap, Nodejs, Express.js, ReactJs

**Computer Science Core:** Data Structures and Algorithms, Object Oriented Programming, Problem Solving, Operating Systems, Database Management System, Computer Networks

**Developer tools:** Vs Code, GitHub, PyCharm, Jupyter.

**Certifications & Training:** SmartBridge Full Stack Developer MERN

IBM Machine Learning in Python (Coursera), IBM Gen AI

The Complete Web Development Bootcamp by Dr. Angela Yu (Ongoing)

NPTEL Cloud Computing, NPTEL Marketing Analysis