

Ansh Agarwal

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☎ 7500906096

📁 Portfolio

in Ansh-Agarwal

🔗 Anshag45

Education

VIT Bhopal University

B.Tech in Computer Science

Sept 2022 – June 2026

CGPA: 8.96/10.0

Aryans International School, Moradabad

12th Standard

2020 – 2021

Percentage: 70%

PMS Public School, Moradabad

10th Standard

2018 – 2019

Percentage: 95.2%

Technical Skills

Programming Languages: C++, Java, Python, JavaScript, TypeScript, Dart

Web Development: HTML, CSS, React.js, Next.js, Node.js, Express.js, Tailwind CSS

Machine Learning & Data Science: TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, SciPy

Database Management: SQL

Android Development: Flutter, Dart

Data Visualization & Analytics: Tableau

Projects

◦ Smart Home Animated App [\[GitHub\]](#) [🔗](#)

Flutter, Dart, Android Studio, Material Design, Git

- Developed a Flutter-based smart home control app simulating real-time IoT device management of lights, fans, and AC units
- Designed smooth UI animations using AnimatedContainer, Hero and AnimatedSwitcher
- Followed the principles of modular architecture and material design for scalability and maintainability

◦ Aqua Pulse – Water Quality Monitoring Dashboard [\[GitHub\]](#) [🔗](#)

Python, ARIMA, REST APIs, Firebase, Tableau, Plotly, Chart.js

- Built a real-time dashboard to track water quality in 44+ stations in 28 states
- Analyzes 9+ parameters (pH, DO, BOD, turbidity, etc.) in real-time and calculates NSF WQI automatically
- Uses ARIMA 5.1.0 forecasting to predict Water Quality Index (WQI) trends 15 years ahead with 92% accuracy
- Other Features: CSV upload, Future WQI prediction, Geographic visualization and Tableau integration

◦ Advanced MCQ Generator Using GENAI [\[GitHub\]](#) [🔗](#)

Python, Flask, React, MongoDB, OpenAI API, JWT, SpaCy, BeautifulSoup, pdfkit

- Full-stack app that generates MCQs from web articles using OpenAI GPT and SpaCy NLP
- Implemented web scraping with BeautifulSoup and quiz customization features
- Added hint/explanation support for generated questions

Certifications

GEN AI Using IBM Watsonx, IBM – Generative AI course. *Apr 2025,* [Certificate](#) [🔗](#)

Full Stack Developer MERN, SmartBridge & MongoDB – Hands-on MERN projects, [Certificate](#) [🔗](#)

The Bits and Bytes of Networking, Google – Scored 93.5%, [Certificate](#) [🔗](#)

Cloud Computing, NPTEL – Top 2%, Silver Medal, Score: 87% [Certificate](#) [🔗](#)

Achievements

- Solved 270+ DSA problems on LeetCode and other platforms [\[LeetCode Profile\]](#) [🔗](#)
- 5 star in C++ on HackerRank