

Ansh Agarwal

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📁 Portfolio

in LinkedIn

🐙 Github

Education

VIT Bhopal University

B.Tech in Computer Science

Sept 2022 – June 2026

CGPA: 8.89/10.0

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, Git

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

Cloud & Deployment: AWS (EC2, S3, Lambda, API Gateway)

Database Management: MySQL, MongoDB

Android Development: Flutter, Dart

Data Visualization & Analytics: Tableau

Projects

◦ Aqua Pulse – Water Quality Monitoring Dashboard



Python, ARIMA, REST APIs, Firebase, Tableau, Plotly, Chart.js, React, Tailwind CSS, Typescript

- 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, AI Anomaly Detection, AI Forecasting and Tableau integration

◦ Advanced MCQ Generator Using GENAI



Python, Flask, React, Typescript, Gemini API, JWT, SpaCy, BeautifulSoup, pdfkit

- Developed a quiz platform supporting 3–50 questions per session and 3–6 answer choices per question.
- Integrated AI creativity controls and multi-answer support, increasing user engagement by 35%.
- Enabled export features, generating print-ready PDFs and separate answer keys
- Implemented functionality to generate multiple-choice questions directly from any URL or browser link, streamlining quiz creation from web content

◦ Smart Home Animated App



Flutter, Dart, Android Studio, Material Design, Git

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

Certifications

GEN AI Using IBM Watsonx, IBM - April 2025,

Full Stack Developer MERN, SmartBridge– Hands-on MERN projects, April 2025,

MongoDB Node.js Developer Path, MongoDB-July 2025,

The Bits and Bytes of Networking, Google – Scored 93.5%, December 2023,

Cloud Computing, NPTEL – Top 2%, Silver Medal, Score: 87% , April 2024,

Achievements

- Solved 400+ DSA problems on LeetCode and other platforms [LeetCode](#)
- 5 star in C++ on HackerRank