Ansh Agarwal

✉ agarwalansh651@gmail.com 📞 +91 7500906096 🔗 Portfolio in Linkedin ⬡ Github

Education

VIT Bhopal University	*Sept 2022 – June 2026*
B.Tech in Computer Science	*CGPA: 8.89/10.0*
Aryans International School, Moradabad	*2020 – 2021*
12th Standard	*Percentage: 70*
PMS Public School, Moradabad	*2018 – 2019*
10th Standard	*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 Sense Ai – 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