

Abhay Yadav

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EDUCATION

Vellore Institute of Technology Bhopal University, Bhopal

B.Tech, SCOPE / CGPA : 8.49

September 2022- Ongoing

Lucknow Public College, Lucknow

Class XII | Aggregate: 84.6%

March 2020 - March 2022

St. Mary's Inter College, Lucknow

Class X | Aggregate: 91%

March 2020

SKILLS

Languages: Java, Python, C++, Dart, Kotlin

Frameworks & Tools: Android Studio, Flutter, REST APIs, Seaborn, Numpy, Scikit, Matplotlib, Docker, Kubernetes, Flask, Tensorflow

Databases and Cloud: PostgreSQL, MongoDB, MySQL, Amazon Web Services

Coursework: DSA, OOP, DBMS, Operating Systems, Computer Networks

Focus Areas: Cloud Computing, Machine Learning, Deep Learning, Android development, LLMs

Core Competencies: Problem Solving, Team Collaboration, Project Management, Technical Communication

EXPERIENCE

Freelance Graphic Designer | Remote | Jun 2021 – Jan 2022

- Produced and delivered 30 high-quality graphic assets—including 28 promotional posters and 5 detailed architectural floor maps—completed under tight client deadlines.
- Leveraged Adobe Illustrator to create vector assets with 100% pixel accuracy, ensuring scalability and print-readiness across all deliverables.
- Collaborated with 12 clients, iteratively refining design drafts to achieve a 100% client satisfaction rate and secure 3 repeat engagements.

PROJECTS

Aeropulse—Air Quality Index Prediction Model | **Python, Pandas, Scikit-learn, Matplotlib, CSV, ML**

- Led dataset collection and preprocessing for a team of 8, ensuring 95% data accuracy and enhancing model forecasting precision for AQI predictions.
- Streamlined machine learning integration by developing robust data curation workflows, reducing preprocessing time by 30% and improving the reliability of pollution control outcomes.

PocketAPI – Mobile API Testing & Debugging Tool | **Flutter, Hive (NoSQL), REST APIs**

- Built a dynamic request builder supporting 6 HTTP methods, boosting user testing speed by 40%.
- Engineered real-time key-value editing for Headers, Body, Params, and Auth, improving debugging efficiency.
- Integrated Hive to provide persistent storage for 100+ user collections, enabling seamless access across sessions.
- Enabled request **exporting as JSON** and implemented offline-first functionality.

SynLink – Real-Time Chat App | **Flutter, Node.js, Socket.io, PostgreSQL, REST API**

- Developed a responsive chat UI using Flutter and Bloc, resulting in a smoother onboarding experience for over 10 test users.
- Implemented real-time messaging with Socket.io, consistently delivering messages in under 300ms during group testing with up to 10 concurrent users.
- Designed and deployed a modular Node.js backend and PostgreSQL database for chat storage, reducing observed errors during demo sessions and successfully supporting multiple user logins without downtime.

CERTIFICATIONS

Google- The Bits and Bytes of Computer Networking, December 2023

DeepLearning.AI - Machine Learning, January 2025

IBM - Flutter and Dart: Developing Android, iOS and Mobile apps