

# Abhay Yadav

[✉ abhay131203@gmail.com](mailto:abhay131203@gmail.com) | [📞 9696994723](tel:9696994723) | [linkedin/abhay-ryad/](https://www.linkedin.com/in/abhay-ryad/) [github.com/abhayryad/](https://github.com/abhayryad/) [leetcode.com/abhayryad/](https://leetcode.com/abhayryad/)

## EDUCATION

---

**Vellore Institute of Technology Bhopal University, Bhopal**

*B.Tech, SCOPE | CGPA : 8.47*

**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: 92%*

**March 2020**

## SKILLS

---

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

**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

## EXPERIENCE

---

**Freelance Graphic Designer** | Remote | Jun 2021 – Jan 2022

- Delivered 30 high-quality graphic assets, including 28 promotional posters and 5 detailed architectural floor maps, consistently meeting tight client deadlines.
- Mastered Adobe Illustrator to create 100% pixel-accurate vector assets, ensuring optimal scalability and print readiness for all deliverables.
- Collaborated directly with 12 clients, iteratively refining 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** a team of 8 in dataset collection and preprocessing, ensuring **95% data accuracy** for model training.
- **Improved** model forecasting precision for AQI predictions through robust data quality assurance.
- **Developed** streamlined data curation workflows, **reducing preprocessing time by 30%** and enhancing the reliability of pollution control outcomes.

**CRPC Law RAG App** | **Python, Groq API, Vector Database, Retrieval-Augmented Generation (RAG)**

- **Engineered** a specialized RAG application trained on CRPC law, achieving **high-accuracy legal information retrieval**.
- **Leveraged** the Groq API's LPU to deliver sub-second latency for complex legal queries, ensuring near-instantaneous responses.
- **Minimized** model "hallucinations" by strictly grounding all output in the trusted CRPC knowledge base.
- **Reduced** legal research time by an **estimated 90%** by enabling quick review of statutes and precedents via natural language queries.

**Security System - MLOps** | **Python libraries, MongoDB, Docker, FastAPI, AWS**

- Built a **6-stage ETL pipeline (Ingestion, Validation, Transformation, Training, Evaluation, Pusher)** to manage the end-to-end ML lifecycle.
- Automated ML deployment using **Docker** containers, reading from **MongoDB** and deploying to **AWS**, cutting deployment time by 94% (from 2 days to <3 hours).
- Achieved **100% experiment reproducibility** by implementing comprehensive model and data versioning across all six stages.

## CERTIFICATIONS

---

**Google-** The Bits and Bytes of Computer Networking

**DeepLearning.AI** - Machine Learning

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