

Abhay Yadav

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EDUCATION

Vellore Institute of Technology Bhopal University, Bhopal

September 2022- Ongoing

B.Tech, SCOPE | CGPA : 8.47

Lucknow Public College, Lucknow

March 2020 - March 2022

Class XII | Aggregate: 84.6%

St. Mary's Inter College, Lucknow

March 2020

Class X | Aggregate: 92%

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.

Legal Nexus | Python, Groq API, Vector Database, Retrieval-Augmented Generation (RAG)

- **Engineered** a specialized LLM 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