



Priyansh Saxena

Roll Number: 2022IMT089
ABV - IIITM Gwalior
Full-Stack Machine Learning Engineer

+91-7417513597
✉ Priyansh Saxena
🔗 [Priyansh-Saxena-github](https://github.com/Priyansh-Saxena-github)
📄 [Priyansh-Saxena](https://www.linkedin.com/in/Priyansh-Saxena)

EDUCATION

Year	Degree / Certificate	Institute / Board	Percentage/CGPA
2022 - PRESENT	B.Tech (IT)	IIITM Gwalior	7.5
2022	Senior secondary	CBSE board	90.2%
2020	Secondary	CBSE board	96.6%

PROJECTS

- Anomaly Detection in IoT Data Streams** 05/2024-06/2024
 - Developed a scalable system analyzing *real-time IoT data streams* using **Apache Kafka** and **MQTT**, processing over **100,000** data points per second.
 - Containerized models with **Docker** and orchestrated deployment via **Kubernetes**, achieving 99.9% uptime with auto-scaling capabilities.
 - Implemented CI/CD pipelines with **GitLab CI/CD**, reducing deployment time **by 50%** and ensuring continuous integration.
 - Managed and tracked models using **MLflow**, maintaining model performance above 95% accuracy and enabling regular model retraining.
 - Technologies: **Apache Kafka, MQTT, Docker, Kubernetes, GitLab CI/CD, MLflow, Python, TensorFlow, Scikit-Learn..**
- Healio – LLM Integrated Hospital Management Chatbot** 03/2024-04/2024
 - Developed a **Retrieval-Augmented Generation (RAG)** chatbot, capable of answering 1000+ questions using **chatgpt – 2** model for text generation and a sentence transformer for embedding creation.
 - Integrated **MongoDB** for efficient data management and vector storage, with **PyMongo** handling database interactions.
 - Implemented a **Flask** backend API to facilitate communication between the frontend and the RAG system.
 - Created a simple **HTML/JavaScript** frontend for user interaction, allowing users to query the hospital data chatbot system.
- Faced Recognition based Attendance App** 02/2024-03/2024
 - Designed a web application that streamlines attendance taking through facial recognition technology using **OpenCV**.
 - Leverages a **Flask**-based web interface and is trained over a huge dataset (**13000+ images**) using a **SVM** model with an impressive **95% accuracy**...
- Recipe Adviser** 11/2023 -12/2023
 - Created a recipe recommendation tool suggesting recipes based on inputted ingredients by scraping over 1,000 recipes from [SanjeevKapoor.com](https://www.sanjeevkapoor.com) using **Beautiful Soup** and **requests**.
 - features a **Flask API** for the backend and a user friendly **Streamlit** app for users to input ingredients and receive personalized recipe suggestions.

CERTIFICATIONS

- Microsoft Azure data Scientist Associate certification
- Google Generative AI Certificate
- IBM Professional Machine Learning Certification
- IBM Hadoop Administration Certificate

SKILLS

- Programming Languages:** Python, C++, Java, GO, Kotlin, SQL
- Backend:** Django, Flask, Docker, FastAPI
- Data Science:** Apache Spark, Hadoop, Django, Streamlit, MLflow, BeautifulSoup, Selenium
- Database Management:** MySQL, PostgreSQL, Neo4j, MongoDB
- Machine Learning:** TensorFlow, Keras, PyTorch, Scikit-Learn, OpenCV, LangChain, Transformers, CI/CD(Github Actions)
- Cloud Platforms:** MQTT and AWS services.

POSITION OF RESPONSIBILITY

- IAENG Member. 05/2024-Present
- Internshala Student Program (ISP) 06/2024-Present
- Campus Ambassador @ TEACHNOOK 03/2024-Present

ACHIEVEMENT

- 3 star on **CodeChef** (Rating 1634).
- Knight** on **LeetCode**
- Indian Olympiad in Astronomy 2021-22 (IAPT)**
Selected among the **top 264 students** in the Indian Olympiad in Astronomy (IAPT) 2021-22 conducted **all over India**.
- Aryabhatta Ganit Challenge (CBSE)**
Among the **top 100** in the CBSE Noida Region, with **only 4** selection from Bareilly
- IMO Mathematics competition**
Secured school rank **3rd** and **City rank 11** in the I.M.O. 2017.

EXTRA CURRICULAR

- Sports:** Placed **9th** in Chess tournament at the **District** level among all schools and over **350+** participants.
- Cultural:** Volunteer in Aurora 2024 event at IIITM Gwalior.
- Technical:** Created a Automated water irrigation plant with a coverage of radius **2.7 m** for the IoT Exhibition