

# Ayush Bhatt

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## Education

### VIT Bhopal University

Bachelor of Technology in Computer Science

CGPA – 8.52

May 2021 - Ongoing

## Experience

### The PreProd Corp

Data Analyst Intern

Nov 2023 – May 2024

- Streamlined a Data and ML pipeline with flask powered frontend to forecast food demand, processing 100K+ data samples with an RMSE of 63 with FbProphet model.
- Created PowerBI dashboards for insightful data visualization, optimized DVC and MLFlow pipelines, and leveraged PySpark to efficiently process incoming data streams from Kafka queues.
- Built a comprehensive web application for seamless invoice generation, report creation, and CRM management, providing robust support to a client managing three hospitals and serving over 30 clients, streamlining operations, improving client interactions, and enhancing overall workflow efficiency.

## Technical Skills

**Languages:** Python, SQL

**Tools:** Git, Docker, Apache Airflow, MLflow, Postman, PowerBI

**Technologies:** Google Cloud Platform, Apache Spark (PySpark), MLOps, Data Warehousing, ETL

**Certification:** Google Digital Leader (Cloud Certification), Google Professional Project Management Certification

## Projects

### SteganoMask

Python, Flask, SQLite, PowerBI, Git

Apr 2024

- Designed a Flask-based web application to add digital hidden watermarks to multimedia content, enabling content creators to control the use of data for AI training. Supports 4 multimedia formats: images, videos, audio, and text.
- Introduced minimalistic patterns into the data, causing the ML model to focus on these artificial patterns rather than learning the underlying natural relationships within the data.
- Reduced image classification accuracy from 95% to 40% and text sentiment analysis accuracy from 76% to 50%.
- Link: <https://stegnomask.onrender.com/>

### QR Buddy

Python, Flask, SQLite, Git

Jan 2024

- Created a web application for event ticketing and attendance management, featuring ticket creation, email notifications, admin control panel, and attendance scanning; handled 2500+ API requests.
- Deployed the system at three major events with over 500 attendees each, enhancing verification and attendance tracking.
- Led backend development and integrated the frontend within a 3-person team, delivering high performance.
- Link: <https://qrbuddy.pythonanywhere.com/>

### Ticket Guru

Python, Flask, RAG, PowerBI, SQLite, Git

Jun 2024

- Optimized a web portal for museums to manage online ticket bookings, verification, and data visualization.
- Implemented an AI-powered chatbot using Retrieval-Augmented Generation (RAG) via Gemini API for automated ticket booking and customer queries, enhancing user interaction in 7 Indian languages.
- Integrated Twilio for a WhatsApp-based chatbot, enabling ticket purchases through WhatsApp messaging.

## Leadership / Extracurricular

### Cisco Campus Ambassador, Microsoft Campus Ambassador

Jul 2021 – Present

VIT Bhopal University

- Delivered presentations to over 500 students, enhancing tech literacy by simplifying complex concepts.
- Led a team of over 15 people for conducting 5+ technical seminars, boosting student participation in tech initiatives.

### VITronix VIT Bhopal (PR Lead)

Jul 2022 – May 2024

- Led and supervised a 20-member team in developing a humanoid robot using Arduino.
- Automated attendance generation, email distribution, and ticket creation using Python, cutting work across 300 records.