

JAI VADULA

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EDUCATION

- **Integrated Masters (BTech + MTech) of Technology in Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning** (2021 - 2026)
Cumulative GPA - **8.61**, VIT Bhopal University, Bhopal, M.P.
- **XIIth**, Percentage - **86.0**, Amity International School, Gurgaon, Haryana (2020 - 2021)
- **Xth**, Percentage - **86.2**, OLF Convent School, Gurgaon, Haryana (2018 - 2019)

SKILLS

- **Programming:** Python, C++, Git, HTML, CSS, MySQL
- **Libraries and Frameworks:** Numpy, Pandas, Matplotlib, Scikit-Learn, Flask
- **Tools and Platforms:** Jupyter Notebooks, VS Code, MS Office, Google Cloud Platform (GCP)

PROJECTS

GuestGazer – Hotel Reservation Cancellation Prediction

Tech Stack: GCP, Pandas, NumPy, Scikit-learn, PyYAML, MLflow, Flask, Docker, Jenkins, GitHub

- Designed an end-to-end ML pipeline for predicting hotel reservation cancellations using real-world data.
- Implemented GCP-based data ingestion and deployed models using Google Cloud Run.
- Developed modular preprocessing and training scripts with MLflow experiment tracking.
- Built an interactive Flask-based web application for real-time predictions.
- Automated CI/CD using Jenkins for continuous deployment and testing.
- Addressed business use cases like revenue forecasting, fraud prevention, and customer segmentation.

SolarSense – Rooftop Solar Panel Detection using Satellite Images

Tech Stack: Python, PyTorch, LabelImg, Roboflow, ImageGrab, PyAutoGUI

- Built an object detection model to identify rooftop solar panels in remote sensing satellite images.
- Designed specifically for Indian terrains, addressing challenges like dense infrastructure, Scarce datasets.
- Created a custom dataset using Google Maps and a Python script for image extraction.
- Annotated images using LabelImg and improved data quality with augmentation via Roboflow.
- Trained a Detection Transformer model with RetinaNet as the backbone for enhanced accuracy.
- Project contributes to urban planning and renewable energy analytics through remote sensing.

CERTIFICATIONS

- GitHub Foundations Certification – GitHub
- Machine Learning Specialization – Coursera
- Applied Machine Learning in Python – Coursera

EXTRA-CURRICULAR ACHIEVEMENTS

Data Science Hackathon – IIT Kharagpur

- Qualified for Round 2 by clearing a competitive quiz focused on ML, deep learning, and data analytics.

British Airways Data Science Job Simulation – Forage

- Conducted sentiment analysis on customer reviews to build a predictive model for purchase behavior.
- Demonstrated business insight into customer satisfaction and loyalty factors.

CO-CURRICULAR ACHIEVEMENTS

Member, Data Science Club – VIT Bhopal

- Coordinated workshops, seminars, and coding events to foster community engagement in AI/ML.