

Akshat Rastogi

akshatrastogi6704@gmail.com | +91 9044092142 | linkedin | github

Education

VIT Bhopal University , BTech in Computer Science	Sept 2022 – Ongoing
• GPA: 9.08/10.0 (link)	
Delhi Public School , 12th Standard	Apr 2021 – May 2022
• Percentage: 95.4% (link)	
Delhi Public School , 10th Standard	Apr 2019 – Mar 2020
• Percentage: 93.8% (link)	

Experience

Data Analyst Intern , Preprod Corp	Sept 2024 – Dec 2024
<ul style="list-style-type: none">Built ensemble models and clustering algorithms (DBSCAN, K-means) for pattern recognition, optimized data pipelines for 1M+ records using SQL, NoSQL, and graph databases, integrated MLFlow for lifecycle management, and collaborated in Agile sprints to improve delivery by 25%.Developed a synthetic data pipeline for churn prediction, simulating telecom customer data to improve model training and improve churn analysis efficiency by 30%.Integrated a tagging and analysis module for a large-scale product review tagging system using FastAPI and Streamlit, achieving 92% tagging accuracy and improving categorization efficiency by 40% with spaCy, rule-based detection, and transformer models.	

Projects

Accurate AutoML tool <i>Python, JavaScript, HTML5, CSS, MySQL, Docker</i>
<ul style="list-style-type: none">Built Accurate, an AutoML platform that simplifies machine learning by eliminating the need to code and improving efficiency by 60%.Enabling users to upload datasets and customize workflows through an intuitive form-based interface.Achieved a 40% reduction in development time while enhancing accessibility and efficiency for nontechnical users.
HVAC Improvement System (HIS) <i>Python, JavaScript, HTML5, CSS, PostgreSQL, GenAI</i>
<ul style="list-style-type: none">Designed a machine learning model using LGBM Regressor to predict heating/cooling loads and appliance energy consumption for HVAC optimizationAnalyzed factors like temperature, humidity, and pressure and leveraged generative AI to suggest improvements for optimizing HVAC efficiency and energy savingsAchieved an R^2 score of 61%, improving accuracy by 25%, and contributed to smarter HVAC engineering and reduced energy consumption.

Achievements

- Winner, Buildathon Hackathon 2024** (40+ finalist teams), awarded an internship at Preprod Corp.
- Published research on Glass Transition Temperature Prediction** at RTASCE 2023, improving predictive accuracy by 15%.
- Top 10 in Kaggle competition** (3000+ participants), demonstrating expertise in data science and machine learning.

Certifications

- Applied Machine Learning in Python (Coursera)** – Dec 2023
- Privacy Security in Online Social Media (NPTEL)** – Apr 2024

Technologies

Languages: Python, C++, Java, Php
Libraries/Frameworks: NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow, PyTorch, Streamlit, React, Flask
Tools / Platforms: Tableau, Git, VS Code, Matlab, Docker
Databases: SQL, PostGre SQL, MongoDB