

Akshat Rastogi

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github.com/Akshat-Rastogi-6 / linkedin.com/in/akshatrastogi6704 | Portfolio : [Akshat Rastogi - Data Scientist](#)

Profile Summary

Aspiring Data Scientist specializing in AI and Machine Learning, proficient in Python, SQL, and C++. Experienced in developing advanced analytics solutions, machine learning models, and data-driven tools. Strong analytical skills in statistical model development, data integration, and identifying trends in large datasets. Proven ability as a data strategist, performing ad-hoc analysis and generating actionable insights. Published research and notable achievements on platforms like LeetCode. Motivated to leverage critical thinking and quantitative analysis to solve complex business problems.

Skills

Languages: Python (Proficient), C++, Java, MySQL, HTML, CSS, JavaScript, PHP

Technologies & Tools: NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow, PyTorch, Streamlit (Framework), Tableau

Education

- VIT Bhopal University** (Expected Graduation - 2026)
B. Tech in CSE with Specialization in Artificial Intelligence and Machine Learning **CGPA:9.06/10**
- Delhi Public School** (2021 - 2022)
12th Standard - Central Board of Secondary Education **Percentage: 95.4%**
- Delhi Public School** (2019 - 2020)
10th Standard - Central Board of Secondary Education **Percentage: 93.8%**

Project Work

EvolKAI

- Developed a comprehensive **online resource hub for Machine Learning, Deep Learning, and Computer Vision**, attracting **1,000 visitors** and demonstrating user engagement through the provision of practical code examples.
- This resulted in a **20% increase in website traffic** through a combination of **SEO optimization** and ongoing content updates.
- The platform was built using HTML5, CSS3, JavaScript, and Google Ads for promotion.

Energy Insight

- Developed a **Machine Learning model using an LGBM Regressor** to predict cooling/heating loads and appliance energy consumption, achieving an **R² score of 61%**.
- This system integrated the **Gemini API to provide architectural design improvement suggestions**, enhancing building efficiency.
- The project utilized Machine learning at the backend using Python, HTML5, CSS3, and JavaScript for the frontend and involved **Generative AI (GenAI)** API integration with Gemini to provide better results and suggestions, Git, and GitHub for version control.

Sentext

- Developed a **user-friendly sentiment analysis tool using a Multinomial NB model with 10% increase in accuracy** that the previous done work, enabling users to classify statements as joy, sad, anger, disgust, fear, guilt, and shame.
- This resulted in a **15% increase in user satisfaction** through a combination of improved model accuracy and interface enhancements.
- The tool utilized Machine Learning, HTML5, CSS3, Python, PHP, and Natural Language Processing techniques.

Achievements

- Achieved **top 3** out of 37 teams in a **24-hour hackathon** organized by PreProd Corp; developed **Auto ML software** and secured an **internship with PreProd Corp in Bangalore**.
- Published two research papers in the prestigious **EXAI book by Taylor & Francis Publications**.
- Authored and presented comprehensive research on Glass Transition Temperature prediction at 2nd International conference at **RTASCE 2023** organized by NIT Warangal; findings contributed to a **15% improvement in predictive accuracy** for polymer applications.
- Solved over **500 questions** on Data Structures and Algorithms using Python and C++ on various platforms.

Notable Certification (10+)

- Earned the **Applied Machine Learning in Python Certificate** from the University of Michigan on Coursera; enhanced
- Privacy and Security in Online Social Media Elite + Silver Certificate** by NPTEL.

Notable Publications

- Machine Learning Advancements in Polymer Material Creation: Successful Prediction of Glass Transition Temperature**
 - Developed Machine Learning models **achieving up to 95% accuracy** in predicting the glass transition temperature of polymer materials, significantly **enhancing prediction precision and reliability**.
- Exploring EEG Characteristics and Machine Learning Classifiers for Accurate Detection of Eye-Blink Mistakes**
 - Developed a Machine Learning framework **achieving 96% accuracy** in detecting eye-blink mistakes from imbalanced EEG data. This framework utilizes various algorithms, including Random Forest, for precise eye movement prediction

Both the papers are published in the esteemed book [Explainable AI \(XAI\) for Sustainable Development Trends and Applications by Taylor & Francis](#).

Extracurricular and Soft Skills

- Avid Book Reader like reading self-help books like Atomic Habits, Games People Play and many more.
- Fluent in Hindi and English