# Anshul Rawat

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## Summary

Experienced in collecting, cleaning, and analyzing large datasets to extract actionable insights. Skilled in developing visualizations and trend reports using Tableau and Python libraries like Pandas and Seaborn. Strong foundation in statistics, SQL, and data-driven storytelling. Eager to apply analytical skills to support business decisions in real-world settings.

## Technical Skills

**Languages & Tools:** Python, MySQL
**Libraries & Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, Seaborn, Matplotlib, Flask
**Platforms:** Jupyter Notebook, Tableau, Git, VS Code, Excel, MongoDB, WorkBench
**Concepts:** Supervised & Unsupervised Learning, Neural Networks, Feature Engineering, Model Evaluation, Data Preprocessing, Natural Language Processing (NLP)

## Experience & Projects

**Startup Funding Trends Analysis – Python, MySQL, Tableau** *(GitHub)* july 2025

- Processed and standardized 50K+ funding records using Python and SQL for accurate analysis.
- Built interactive Tableau dashboards revealing top cities, sectors, and investor trends.
- Developed ML models (Random Forest classifier) achieving 80% accuracy in predicting funding categories.

**MedSafe – Drug Interaction Finder – Python, Flask, MongoDB** *(GitHub)* Dec 2024

- Built a web-based drug interaction system using Python, Flask, and MongoDB, deployed on Render.
- Implemented similarity-based analysis with molecular fingerprints and Jaccard similarity across 20K+ drug records.
- Integrated DrugBank and PubChem data to provide quick and reliable interaction checks for healthcare use.

**Emotion Detection App – Flask, TensorFlow** *(GitHub)* Oct – Nov 2024

- Built a web app for classifying facial emotions into 7 categories using CNN and OpenCV.
- Achieved 72.79% training accuracy and 66.52% validation accuracy.
- Enabled image upload detection via a user-friendly interface.

**Stress Prediction System – Flask, Scikit-learn** *(GitHub)* Aug – Sep 2024

- Created a stress level prediction app using physiological data (heart rate, respiratory rate, etc.).
- Delivered 92% accuracy with a pre-trained model; deployed using Flask & Joblib.
- Recommended personalized therapies (Yoga/Audio) based on model predictions.

## Publication

**Chapter Co-author**, *Education Unleashed: The AI Era*, ISBN: 978-93-5842-828-5 (2023). Chapter 11 on AI ethics, privacy, and bias in education. Available at: ResearchGate

## Education

**K.R. Mangalam University**, Bachelor of Technology – Computer Science & Engineering 2022 – 2026

- CGPA: 7.7
- **Coursework:** Data Structures, Algorithms, Database Management Systems, Statistics, Machine Learning, Data Visualization, Python Programming, Web Development

## Additional Skills & Certifications

**Soft Skills:** Analytical Thinking, Problem-Solving, Communication, Collaboration, Critical Thinking

- Foundations: Data, Data, Everywhere – Google *(link)*
- Ask Questions to Make Data-Driven Decisions – Google Data Analytics Certificate *(link)*
- Google Business Intelligence Certificate *(link)*
- Drone & Robotics Bootcamp – IIT Mandi