

# Tanya Shekhawat

Portfolio LinkedIn Github

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## PROFILE

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Budding Data Scientist known for winning national hackathons and collaborating with prominent entities like the Ministry of Coal and MP Police. Skilled in Python, Statistics, and Data Analytics, with a strong focus on impactful research and innovation, along with a proven ability to effectively communicate complex findings to non-technical audiences.

## SKILLS

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- **Programming:** Python, R, SQL
- **Data Visualization:** Power BI, Tableau
- **Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, Keras, FastAPI
- **Machine Learning:** Predictive Modeling, Feature Engineering, Model Optimization, Hyperparameter Tuning, Regression, Classification, Clustering, Anomaly Detection, Time Series Forecasting, NLP
- **Tools:** Git, Microsoft Suite, Google Workspace

## PERSONAL PROJECTS

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- **Dragline Karyavahak (Link):**
  - Led the development of a web app enhancing dragline operations using machine learning for precise digging, loading, and dumping.
  - Technologies used: Python, FastAPI, AWS EC2, Express.js, Node.js, OpenCV, IoT, Machine Learning.
- **Diamond Price Prediction (Link):**
  - Developed a diamond price prediction model utilizing machine learning algorithms to analyze key features and provide accurate pricing prediction through a user-friendly web interface.
  - Technologies used: Linear Regression, Lasso, Ridge, ElasticNet, along with performance metrics like R2 score, mean absolute error, and mean squared error.
- **Jumpstart Sales Prediction (Link):**
  - Developed a predictive model to forecast business sales based on multiple factors.
  - Technologies used: Python, Decision Tree Regressor, Label Encoding, Standard Scaler, Random Forest Regressor, Grid Search CV.

## WORK EXPERIENCE

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- **Data Science Intern**  
*Hamoye* Jan 2023 - May 2023
  - Worked to identify the underlying causes of violence in Africa by gathering and analyzing data and developed a model to anticipate violent acts that would occur in the future.
- **Website Management Intern**  
*QEI* Oct 2023 - Apr 2024
  - Successfully migrated the website to a new domain, ensuring a smooth transition and minimal downtime. Redeveloped and optimized website, improving load time by 30%

## AWARDS & RECOGNITIONS

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- **IDE Bootcamp 2024:** Ranked among the top 5 in the IDE Bootcamp organized by AICTE, Ministry of Education for Entrepreneurship Development.
- **Yukti Innovation 2.0:** Team Leader, Winner of Yukti Innovation 2.0 - 2024.
- **Smart India Hackathon 2023:** Team Leader, Winner of Smart India Hackathon (SIH) 2023.
- **Codeenergia-2k23 Hackathon:** Secured 1st place in Codeenergia-2k23 Hackathon at SIRT.

## EDUCATION

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- **Bachelor of Technology Honors in Computer Science with specialization in AI**  
*SAGE University; GPA: 3.71* Nov. 2021 - June 2025