

# Tarun Kumar Rathore

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 LinkedIn

 GitHub

## Summary

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Data Scientist skilled in Python, SQL, and Machine Learning with proven success in building predictive models, automating workflows, and driving data-driven decisions for business growth. Improved model accuracy by **40%**, reduced reporting time by **50%**, and developed interactive dashboards for real-time insights and business impact.

**Portfolio:** <https://tarungolu422.github.io/tarungolu-portfolio/>

## Technical Skills

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**Programming & Querying:** Python, MySQL, HTML, CSS

**Machine Learning & AI:** NLP, Deep Learning, MLOps, CI/CD

**Data Analytics & Visualization:** Power BI, Tableau, Advanced Excel, Matplotlib, Seaborn

**Cloud & Deployment:** Google Cloud Platform (GCP), Streamlit, GitHub

**Core Competencies:** Data Cleaning, EDA, Feature Engineering, Insight Generation

## Projects

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### Credit Card Fraud Detection

*Python, Gradient Boosting*

- Developed an anomaly detection model achieving **94% accuracy** and reducing false positives by **15%**.
- Processed **280K+ transactions** and optimized reconstruction loss for fraud identification.

### Loan Default & Risk Analysis

*Power BI, SQL*

- Developed a Power BI dashboard with DAX metrics, reducing reporting time by **40%**.
- Automated SQL pipelines for regional performance analytics.

### House Price Prediction

*Python, Regression, PCA*

- Trained a regression model with PCA, achieving **R<sup>2</sup> = 0.92** and reducing dimensionality by **60%**.
- Identified the **top 5 features** driving property prices.

### Smart Task Management App

*Streamlit, Machine Learning*

- Built an ML-based app predicting task priority with **85% accuracy**, improving productivity by **35%**.

## Certifications

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- Google Data Analytics Certificate – Coursera (2023)
- Deloitte Data Analytics Job Simulation (2025)
- Machine Learning with Python – IBM Cognitive Class (2024)
- AI Passport – EY & Microsoft (2025)

## Achievements

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- Runner-up – **Tinkerathon 2023** for an AI-driven analytics solution.
- Earned **20+ Google Cloud Skill Badges** in Data and AI.
- Received the **NSS “B” Certificate** for national service and leadership.

## Hobbies & Interests

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- Playing cricket and football to enhance teamwork and focus.
- Travelling to explore diverse cultures and perspectives.
- Listening to podcasts to improve communication and mindset.

## Education

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### B.Tech in Computer Science and Engineering

Chhattisgarh Swami Vivekanand Technical University (CSVTU)

*2021–2025*

**CGPA: 8.2 / 10**