

TARUN KUMAR RATHORE

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SUMMARY

Generative AI Engineer skilled in Python, SQL, and Machine Learning with experience building LLM applications, automating workflows, and developing multimodal AI systems. Delivered 40% improvement in model reliability, reduced manual effort by 50%, and developed GenAI solutions using GPT, Gemini, LangChain, and SDXL for real-time insights.

SKILLS

Programming & Querying: Python, MySQL, HTML, CSS
Machine Learning & Generative AI: Statistics, NLP, Deep Learning, OpenCV, LangChain, LLMops (LangSmith)
Data Analytics & Visualization: Power BI, Advanced Excel, Matplotlib, Seaborn
Cloud & Deployment: Google Cloud Platform (GCP), Streamlit, Gradio
Version Control: GitHub, MLOps, CI/CD

PROJECTS

Sentiment Classification of Restaurant Reviews Python, NLP, ML

- Optimized sentiment classification by evaluating 9 ML models; selected SVM achieving 97.5% accuracy and 0.9978 AUC.
- Automated review analysis workflow, improving processing efficiency by 40%.

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.

LLM-Powered Chat Assistant LangChain, LLMops, API

- Built a Streamlit chatbot using GPT and Gemini with LangChain and LangSmith LLMops.
- Optimized multi-model operations, improved prompt reliability, and secured all credential workflows.

Stable Diffusion XL–Based Image Synthesis System SDXL, Hugging Face Diffusers

- Built a high-quality image generator using Stable Diffusion XL (SDXL 1.0) with optimized text-to-image synthesis.
- Leveraged mixed-precision loading to reduce latency and memory constraints on consumer hardware.

Computer Vision Pipeline Using MediaPipe OpenCV, Numpy

- Developed fast, on-device computer vision workflows using MediaPipe Tasks, OpenCV, and NumPy, leveraging the MediaPipe framework for production-grade efficiency.

CERTIFICATIONS

- Google** Data Analytics Certificate - Coursera
- Oracle** Data Science Professional - Oracle
- Deloitte** Data Analytics Job Simulation - Deloitte
- Machine Learning with Python - **IBM** Cognitive Class
- AI Passport - **EY & Microsoft**
- Power BI - CoursePe

ACHIEVEMENTS

- Received the **NSS “B”** Certificate for national service and leadership.
- State-level achiever in **Vedic Mathematics**, demonstrating strong mental math skills.
- Earned 20+ Google Cloud Skill Badges in Data and AI.

HOBBIES

- Cricket, Badminton, Stand-up comedy.

EDUCATION

Chhattisgarh Swami Vivekanand Technical University (CSVТУ) 2021-2025
Bachelor of Technology, Computer Science - 79.72%
Saraswati Higher Secondary School, Korba , Chhattisgarh
12th - 95.4% 2021 | **10th** - 89% 2019