

PRATHAMESH RAJPUT

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@Prathamesh-Rajput

/Prathamesh-Rajput

SKILLS

Python | C++ | Machine Learning | Deep Learning | NLP | Transformers | Gen AI | Agentic AI | Java Script | HTML | CSS | SQL | GIT

TOOLS & TECHNOLOGIES

Scikit-Learn | TensorFlow | Pandas | NumPy | Matplotlib | Seaborn | MySQL | GitHub | Google Colab | Streamlit

EDUCATION

Sarvajanik College of Engineering and Technology(SCET),India 2023-2027

- Bachelor of Technology (B.Tech) in Computer Engineering | CGPA: 8.86/10

Shree Gurukrupa Vidhya Sankul(SGVS),India 2021-2023

- GSEB (Class XII) , PERCENTILE RANK : 91.29

PROJECTS

Surya Namaskar Pose Detection (March 2025)

- Developed a **deep learning-based pose detection model** to classify **8 Surya Namaskar poses** from **images, videos, and real-time camera feed**.
- Implemented **MobileNetV2 CNN Model** with fine-tuning for improved accuracy and stability.
- Utilized **OpenCV** and **MediaPipe** for real-time pose classification.
- Optimized dataset preprocessing and model evaluation with keypoint analysis and accuracy visualization.

Tech Stack: TensorFlow, Keras, OpenCV, MediaPipe, Python

Language-Agnostic Chatbot (RAG-based) (Aug 2025)

- Built a chatbot using LangChain RAG that enables users to upload PDFs and query information directly.
- Designed text chunking + FAISS-based retrieval, reducing query response time by **40%** and improving answer relevance scores by **25%**.
- Integrated with Groq (LLaMA models) for context-aware, accurate answers with **85%+ user satisfaction in test queries**.

Tech Stack: Python, LangChain, FAISS/Chroma, Groq(LLaMA Models) , Streamlit

[Link](#)

Phishing Detection System – End-to-End MLOps Project (July 2025)

- Built a production-ready ML system for phishing URL detection with automated **data ingestion, preprocessing, and retraining pipelines**.
- Integrated **MLflow** for experiment tracking and **Dockerized FastAPI** for batch & real-time deployment.
- Designed with **scalability, monitoring, and model versioning** to ensure reliability in production.

Tech Stack: Python, Scikit-Learn, FastAPI, Docker, MLflow, MongoDB

EXPERIENCE

IEEE 2025 Gujarat Section Datathon (February 2025)

- Designed an ML-based predictive solution for real-world datasets, improving baseline accuracy by **12%**.
- Applied data analytics & AI techniques under time constraints, collaborating in a team of 4.

NASA Space Apps Challenge 2025 (October2025)

- Developed an AI-driven Exoplanet Classification model using NASA's open datasets.
- Designed and implemented preprocessing pipelines and machine learning models for accurate exoplanet categorization.
- Collaborated in a team to analyze data, optimize model performance, and create a functional prototype within the 48-hour hackathon timeframe.

[Link](#)


ACHIEVEMENTS


SSIP (Student Startup & Innovation Policy), Gujarat (February 2025)

- Participated in SSIP innovation program focused on solving real-world challenges using AI/ML.
- Collaborated with a team of 5 members to design solutions, gaining exposure to innovation & entrepreneurship.
- Awarded an SSIP Grant of ₹90,000** for project development and innovation support.

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NASA Space Apps Challenge 2025 — Regional Winner

(October2025)

- Awarded **Regional Winner** for developing an AI-powered *Exoplanet Classification System* using NASA’s open datasets.
- Built complete ML pipeline under a 48-hour hackathon, including data preprocessing, model design, evaluation, and prototype deployment.
- Collaborated with a multidisciplinary team to deliver a high-impact science & research solution recognized at the regional level.

LEADERSHIP

- Team Leader**, NASA Space Apps Challenge – **Regional Winner**: Led a team to develop innovative solutions For space related challenges, coordinating tasks, managing timelines, and ensuring effective collaboration.
- Team Leader**, SSIP (Student Startup and Innovation Policy): Led Idea **granted ₹90,000** funding, overseeing execution, mentoring team members, and facilitating innovative problem-solving to achieve project goals.

CERTIFICATES

- Complete Data Science,Machine Learning,DL,NLP Bootcamp [Link](#) **(July 2025)**