

Profiles

in prahlad

ps2program

Skills

Web Development

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Generative AI and Machine Learning

Full-Stack Development Frontend Frameworks (React, Angular, or similar) Backend Development (Node.js, Django, or similar) API Design and Integration



Software Development

Scalable Application Architecture User-Centered Design Principles Performance Optimization



Collaboration and Achievements

Collaboration with Organizations (e.g., ISRO) Patent Holder for GSLV Mark 3



Simulation Software Development Agile Development Practices Problem Solving and Algorithm Design



Interests

Guitar & Singing

Awards

Out of Box Thinker

Dassault Systems

March 2024

Recognized for innovative problemsolving and creative solutions.

Publications

Common Bulkhead Tank Design for Cryogenic Stage of an Indian Launch Vehicle

Defence Science Journal

1 January 22

Design interstage replacement for GSLV Mark-III

Languages

JavaScript











C#



Prahlad Sahu

Generative Al Engineer | M.Tech Al/ML | Full-Stack Developer at Dassault Systèmes | Ex-ISRO Intern | Specialized in LLMs & FEA

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Summary

A results-driven **Generative AI & Full Stack Engineer** with 4 years of experience in building innovative software solutions. Specializes in integrating **AI** workflows, **Generative AI**, and **Full Stack Development** to create scalable applications. Passionate about using large language models (LLMs) to drive user-centered design in complex applications. Collaborative experience with top-tier organizations like **ISRO** and a patent holder for **GSLV Mark-III**.

Experience

Dassault Systèmes March 21 - Present Sr Software engineer -GenAl & Full Stack Pune

https://www.3ds.com/about/company/office-locations/india/pune-campus

ISRO 2019 - 2020 Internship Kerala

Work along with Scientists and PhD

Education

NIT Raipur 2016 -2020 Mechanical Engineering B.Tech

BITS Pilani - Work Integrated Learning Programmes 2024 - 2026
AL/AI Masters of Technology

Jawahar Navodaya Vidyalaya (JNV)

PCM

88.5 %

2008 -2015

10+12th

Projects

Chat Application Using LLMs and Generative Al

- Designed and developed an intelligent chat application leveraging Large Language Models (LLMs) for natural and context-aware conversations.
- Integrated generative AI workflows to enhance user interaction and automate responses.
- Deployed the application using FastAPI, ensuring scalability and high performance.

Web Application for Simulation Software (Competitor to Ansys 2022 - 2024 Discovery)

- Developed a comprehensive web application for mechanical, thermal, and fluid simulations, competing with Ansys Discovery.
- **Frontend built with JavaScript**, providing an intuitive and responsive user interface for simulation control and visualization.
- **Backend implemented in C++**, enabling efficient and high-performance simulation processing.
- **Hosted on an in-house deployment server**, ensuring secure, reliable, and controlled access to the simulation software.
- Optimized for large-scale simulations, offering users a powerful tool for real-time analysis and results.

Al-Insight 2023

Designed a machine learning model that analyzes previous simulation data to predict outcomes without the need for re-running FEA calculations.

- **Improved simulation efficiency** by reducing computation time and resource usage.
- Leveraged historical simulation data to train the model, providing accurate predictions for mechanical, thermal, and fluid simulations.
- **Integrated the model** into existing simulation software workflows, enhancing overall productivity and decision-making speed.

References

Yogesh Pratap

Phd

G.Gaba

Professor