

Pusarla Bhanuteja

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Career objective

Motivated Computer Science graduate with hands-on experience in Artificial Intelligence, Agentic AI concepts, and full stack development. Skilled in building intelligent applications using Python and modern web technologies, with a strong interest in AI agents, automation, and real-world problem solving. Seeking an AI Engineer role where I can apply my technical skills, continuously learn advanced AI systems, and contribute to building practical, AI-driven solutions.

EDUCATION

Maharaj Vijayaram Gajapathi Raj College, B.Tech in Computer Science-AIML

Nov 2022 - Mar 2026

- GPA: 8.8/10.0

EXPERIENCE

Infosys Springboard Virtual Internship

Nov 2025- Jan 2026

- Built an AI-driven content marketing system using Python, NLP, and LLMs to generate trend + sentiment-based marketing posts, reducing manual content drafting time by 60% and improving content relevance scoring by 30%
- Created content optimization + A/B testing pipeline generating 3-5 variations per post, scoring them using engagement prediction, and delivered recommendations via a Streamlit dashboard, improving best-post selection accuracy by 30%.

PROJECTS

Car Damage Prediction

Repo

- Designed a deep learning web app to classify car damage types from uploaded images using a fine-tuned ResNet18 model, achieving over 90% test accuracy
- Built an interactive Streamlit interface enabling real-time predictions with smooth image upload and feedback.
- Optimized image preprocessing and model inference, reducing prediction time by approximately 30%.

AI Blog Generator

Repo

- Developed an AI-powered platform to generate SEO-friendly blog titles and long-form content from short topics, improving content creation efficiency by 50%.
- Built a graph-based orchestration system using LangGraph and Groq LLM, enabling modular, stateful generation workflows.
- Integrated multilingual support (Hindi, French) with automated translation pipelines, expanding audience reach.
- Built an interactive Streamlit UI for real-time content generation, cutting manual drafting time and improving usability.

Agentic Chatbot

Repo

- Engineered a Streamlit app orchestrating 5 AI workflows (chat, tool-augmented search, news summarization, PDF/website RAG) using LangGraph states, integrating Groq LLM and Tavily/Wikipedia APIs, achieving 40% improved context relevance.
- Implemented dual RAG pipelines with PDF uploads and multi-URL scraping using BeautifulSoup, HuggingFace all-MiniLM-L6-v2 embeddings, FAISS, and intelligent routing to retrieve top-5 supporting passages while detecting hallucinations.
- Architected a modular codebase with isolated node functions, centralized graph builder, secure API key handling, and defensive error handling, reducing runtime failures by 60% and enabling seamless onboarding for non-technical users.

TECHNICAL SKILLS

Programming Languages: Python, C, Java

Frameworks & Libraries: PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, Scikit-learn

Machine Learning & Deep Learning: Supervised & Unsupervised Learning, CNN.

Generative AI & Agentic Systems : LangChain, LangGraph, LangSmith, LLM Application Development .

Tools & Platforms : Jupyter Notebook, Colab, Git, GitHub, Streamlit Cloud.

Soft Skills: Problem Solving, Self-Learning, Adaptability, Communication.

Relevant Coursework: Data Structures and Algorithms, OOP, Operating Systems.

Certifications

Deep Learning for Developers: Fundamentals of neural networks and real-world AI applications.

Python Programming: Strong foundations in Python syntax, data structures, and OOP.

Principles of Generative AI: Learned core concepts of GANs, VAEs, and practical AI use cases.

Hackathon - Build with India: Participated in a national-level hackathon focused on innovative project development.