

Ashutosh Pandey

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PROFESSIONAL SUMMARY

A developer specializing in the intersection of AI and DevOps, with experience in building and deploying robust machine learning systems. I have hands-on experience in developing AI models using Python, complemented by a strong proficiency in automating the deployment lifecycle using Docker, Kubernetes, AWS, and CI/CD pipelines.

EDUCATION

Savitribai Phule Pune University <i>Bachelor of Engineering in Computer Engineering, CGPA: 8.79</i>	Pune 2020 – 2024
H.S.C <i>Vidya Valley North Point Jr Chinchwad</i>	Pune 2018 – 2019

EXPERIENCE

AI Prompt Engineer & Quality Analyst Oct 2024 – Mar 2025
NVIDIA Pune

- Annotated over 3,000+ multimodal tasks (VQA, image captioning, spatial reasoning) to build datasets for large vision-language models.
- Audited and reviewed 1,000+ tasks as a Quality Analyst, ensuring 98%+ accuracy and compliance with annotation and prompt standards.
- Refined prompts to boost output relevance by 30% and reduce hallucination rates across deployed AI systems.
- Mentored junior annotators, delivering prompt writing guidelines that improved overall team productivity.

Front End Design and Developer Intern Feb 2023 – Mar 2023
Code Clause Pune

- Built and deployed a React-based portfolio with advanced animations.
- Developed a weather app using OpenWeather API and a real-time image search engine using Unsplash API.
- Strengthened frontend development skills using HTML, CSS, and vanilla JavaScript.

PROJECTS

TruthLens | Python, CNN, MesoNet, OpenCV, Gradio

- Built a CNN model using MesoNet, achieving 90% real-time accuracy on a custom DeepFake dataset.
- Improved model performance by 15% using OpenCV for image denoising and enhancement.
- Created a balanced dataset of 8,000+ images using generative AI for robust training.
- Deployed with a Gradio interface for real-time detection and smooth user interaction.

Potato AI | Python, ReactJS, FAST API, CNN, OpenCV

- Deployed a plant disease classifier with 94% accuracy using a custom CNN on real-world crop data.
- Achieved high precision across disease types through optimized model training.
- Integrated ReactJS frontend with a FAST API backend for real-time predictions.
- Reached semi-finals in VOIS Innovation Marathon 2022, selected from 20+ teams.

Simple 2048 Game | JavaScript, Docker, AWS, nginx

- Created a browser-based 2048 game with a responsive UI using JavaScript.
- Dockerized the app (120MB image) for portable builds and deployments.
- Deployed on AWS Elastic Beanstalk with 99.9% uptime and auto-scaling.
- Configured nginx to reduce page load time to under 1.2 seconds.

TECHNICAL SKILLS

Generative AI: LLMs (GPT, LLaMA), Agentic AI, Prompt Engineering, n8n, LangChain, Multimodality, VectorDB's
Languages: Python, C++, JavaScript, HTML/CSS
Frameworks: React, Node.js, FastAPI, Flask
DevOps & Cloud: Docker, Kubernetes, Shell scripting, Linux, Jenkins, Github actions, CI/CD, Jira, AWS, Azure, Grafana, Prometheus, CronJobs
Databases: MongoDB, PostgreSQL, MySQL
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch, Tensorflow