

PARTH MAHENDRA PURI

AI ENGINEER

B.E. Artificial Intelligence & Data Science (AI & DS)

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Detail-oriented and organized AI engineer with a strong foundation in **Machine Learning, Deep Learning, Generative AI and Agentic AI workflow**. Proven ability to work in fast-paced environments, consistently meeting tight deadlines. Skilled in developing innovative solutions using **Multi Modal LLMs and State of the art technologies**.

EXPERIENCE

- Artificial Intelligence (AI) Engineer at Verdantis (Ultria, Zycus), Mumbai.** Mar 2025 - Present
- Developed AI systems by leveraging **top-tier generative models** Google Gemini 2.5 Pro / Flash, Open AI GPT-4.1 / o4-mini, Anthropic Claude 3.5 Sonnet, Anthropic Claude 3.7 Sonnet, Anthropic Claude 4 Sonnet, and Anthropic Claude 4 Opus to deliver scalable, enterprise solutions.
 - Designed **Agentic Workflows** and end-to-end **Generative AI pipelines** for autonomous, **context-aware task execution**, deploy robust, **production-grade AI services using FastAPI**, increasing SMEs (Subject Matter Experts) work efficiency in the MRO industry by **95%**.
- Machine Learning Engineer at Health India Insurance TPA Pvt Ltd, Mumbai.** Nov 2024 - Mar 2025
- Developed and trained **Machine Learning and Deep Learning models** to automate processes and enhance operational efficiency **70%**.
 - Built **data extraction pipelines** leveraging **Generative AI** and worked extensively with **Large Language Models (LLMs)**, focusing on **fine-tuning LLMs and hyperparameter optimization**, achieving over **91% accuracy in UAT testing**.
 - Worked with various **pre-trained models** and developed **Machine Learning and Deep Learning solutions**, including **BERT, Llama (3.2-3B & 1B), Mistral (3B & 7B), YOLO, LSTMs, GRUs**, as well as applications in **Image Processing, Azure OCR, document reconstruction, text classification, and transformers**. Also Built **RAG pipelines with MongoDB and Langchain**.
- AI Engineer Intern at Sharv Auto Tech Solutions Private Limited, Mumbai.** May 2024 - Nov 2024
- Enhancing **Natural Language Processing capabilities using Large Language Models (LLMs)** and **Retrieval-Augmented Generation (RAG)**, including **finetuning LLMs**. Working with **MySQL Database and Fast API** for backend development.
- AI Engineer Intern at Fafadia Tech, Mumbai.** May 2023 - Apr 2024
- Worked on **Pretrained Models, Similarity Modeling, and Transfer Learning**. Developed **Machine Learning and Deep Learning Models using Python**.

PROJECTS

- Retroflex: Uncovering Visual Equivalences through Reverse Image Recon.** May 2023 - Apr 2024
- Project focuses on **Reverse Image Search (RIS)** using **Content-Based Image Retrieval (CBIR)** techniques.
 - It leverages **Deep Learning methods**, including **Auto-encoders and Convolutional Neural Networks (CNNs)**, for advanced **feature extraction from large datasets**, **reducing search latency by 40%**, significantly enhancing user experience and system performance.
 - Published at **IEEE 2024 Delhi Section (INDIACom-2024; International Conference on Computing for Sustainable Global Development)**.
- Versify (Generative AI App).** Mar 2024
- Versify, an **AI-powered content creation app**, utilizing the **state-of-the-art Generative AI technologies including LLM and GAN** with integration of **Machine Learning features**.
- Digi Potato (Deep Learning).** Mar 2024
- Developed a **CNN model using TensorFlow** to classify plant diseases as **Early Blight, Late Blight, or Healthy** from leaf images with **93% accuracy**. Employed **image preprocessing, data augmentation, model optimization and machine learning techniques** to achieve **high classification accuracy**.

SKILLS

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| • Python. | • Generative AI. | • Vector Store. | • Fast API. |
| • Artificial Intelligence. | • Agentic AI | • Hugging Face. | • AWS. |
| • Machine Learning. | • LLM RAG Model. | • Tensorflow. | • Linux. |
| • Deep Learning. | • LLM Finetuning. | • Prompt Engineering | • Git & Github. |

AWARDS RECEIVED

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| • Best Team Award at Verdantis (Ultria, Zycus) 2025. | • Winner of the VCET'S National Level Project Showcase Competition 2023. |
| • Winner of Code-O-Fiesta Hackathon 2022. | • Runners-up at VNPS 2024. |
| • Winner of Code-O-Fiesta Hackathon 2023. | |

EDUCATION

- B.E. in Artificial Intelligence and Data Science.** Jun 2020 - May 2024
University of Mumbai, Vidyavardhini's College Engineering and Technology, Mumbai - 8.04 CGPA
- HSC - Bhartiya Vidya Bhavans College (Andheri).** May 2018 - May 2020
- SSC - Fatima High School (Ghatkopar).** May 2016 - Apr 2018

CERTIFICATION AND PUBLICATION

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| • Published Research Paper named "Retroflex: Uncovering Visual Equivalences through Reverse Image Recon," 2024 11th INDIACom, New Delhi, India, 2024. IEEE.explore | Mar 2024 |
| • Software Engineer Intern, HackerRank. HackerRank | Feb 2024 |
| • Data Science Intern, Mumbai Metropolitan Region Development Authority (MMRDA). | Jun 2022 - Jul 2022 |
| • Generative AI on GCP: Deep Dive Into Generative AI Studio. InfosysSpringBoard | Aug, 2024 |
| • Machine Learning with TensorFlow (InfosysSpringBoard). | Jul, 2024 |