Prasad Ashok Chavan

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Work Experience

SIMPLE SPHERE Dec 2024 - Present
Instructor and AI ML Developer Jalgaon, India

- **Lead Generator AI Agent**
  - Developed an AI-powered agent that analyzed over 1,000 user profiles and generated tailored cold call and email scripts, increasing outreach efficiency by reducing preparation time for sales teams by approximately 25 hours monthly.
  - Designed and executed course frameworks focused on high-demand industry topics, enhancing student engagement by 30% through targeted content that aligns with current market trends and employer expectations.

ALGOBRAIN AI Oct 2024 – Dec 2024
AI ML Developer Intern Surat, India

- **Text-to-PPT Generation**
  - Devised a streamlined process for generating PowerPoint presentations using LLM technology, resulting in a consistent format and improved presentation quality; this initiative has led to a 25% increase in positive client feedback.
- **LLM finetune – Task Roleplay**
  - Dippy AI's synthetic chats dataset is guided to finetune the Open Hermes Llama 8B model. The proposed solution is based on Q-Lora architecture and Inference parameters tuning for better inference quality.

HACKING LUX Aug 2023 – Oct 2023
Junior Data Analyst Pune, India

- **Feedbacks analysis dashboard**
  - Developed an interactive dashboard for visualizing and analyzing student feedback using Matplotlib and Python's sentiment analysis, resulting in actionable insights that informed curriculum improvements for over 500 students.

Education

Shram Sadhana Bombay Trust, COET, Jalgaon.

Bachelor of Computer Science Engineering

CGPA: **7.15**

Skills

- **Languages**: HTML, CSS, JavaScript, C++, C, Python.
- **Libraries**, **Frameworks**: ReactJS, TensorFlow, Flask, Fast API, Py Spark, Crew AI, Lang Chain, Pandas, PyTorch, Transformers
- **Tools and Software**: Git Hub, Stream lit, Vercel, Excel, Colab, Vertex AI, Mongo DB Atlas, Hugging face, Gradio, Wan DB
- **Database:** MySQL, Firebase, MongoDB.
- **Subjects**: Data Structures and Algorithms, Object-Oriented-Programming (OOPS), Artificial Intelligence, Machine Learning, Data Mining, Mathematics III (Statistics & Probability), Deep Learning, System Design, Computer Networks

Projects

- **Building GPT from scratch (Link)**: - *Python, Pytorch, NumPy, TensorFlow, Matplotlib*
  - Designed and executed a multi-phase project to create a GPT model, encompassing architecture design, tokenization, and training methods; the initiative contributed to a 30% improvement in processing efficiency across language tasks.
  - The skills I gained from the project are- handling metrices and tensors, vector operations, data preprocessing, tokenization, transformers, attention types, normalization techniques, dropouts, GELU activation and loss functions from scratch.
- **Extender: Image out painting using stable diffusion (Link)** :- *Python, OpenCV, Stable diffusion, Gradio, NumPy*
  - Project for image out painting that extends image beyond their original borders using Stable Diffusion inpainting pipeline and OpenCV's edge map generation feature for generating edge map for image.
  - Created a high-performance algorithm for mask generation of original images, enabling the inpainting pipeline to create final images
- **AI Powered blog generator – FAST API (Link)**:- *Fast API, Mongo DB, HTML, Python, Lang Chain*
  - Crafted endpoints for blog generation using Python's Fast API framework, in which the Gemini Flash model is used with Lang chain's pipelines to generate SEO friendly blog post's according to users input topic.
  - Implemented Mongo DB pipeline to store generated blog posts. Used encryption methods for secure data flow mechanism.

Achievements & Certifications

- **First prize in National level Coding Competition. 4th runner Up in IEEE ML hackathon.**
- **Google courses: Introduction to – Generative AI, LLM's, Vertex AI prompt designing, Responsible AI**
- **BCG – Data science job simulation**