

Sauham Vyas

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EDUCATION

Sage University Indore, Dept-Institute of Advance Computing Indore

Bachelors for Technology (B.Tech), Artificial Intelligence

- GPA: 8.14(till 5th Semester)

Sep 2022 - Sep 2026

Indore, M.P

Alpine Academy

PCM

- GPA: 80%

Apr 2021 - Jul 2022

Indore

EXPERIENCE

Aicerts.ai

Prompt Engineer

2025

Remote-Indore

- Engineered and optimized complex prompts for Large Language Models (LLMs) like GPT-4 and Claude, enhancing response accuracy and contextual relevance by 30% for AI-driven automation solutions.
- Developed and fine-tuned prompt pipelines using LangChain and LlamaIndex, integrating vector databases (FAISS/Pinecone) to improve retrieval-augmented generation (RAG) workflows for dynamic AI applications.
- Conducted systematic A/B testing and prompt evaluations across various use cases, refining zero-shot, few-shot, and chain-of-thought (CoT) prompting techniques, reducing AI hallucination rates by 25%.

SETV Global

AI-ML Engineer

Nov 2024 - Feb 2025

Remote-Indore

- Implemented advanced computer vision techniques with CNN models to accurately detect tumors and Alzheimer's in MRI scans, significantly improving diagnostic outcomes.
- Generated detailed diagnostic reports by identifying sizes, locations, and abnormalities in brain diseases and third-trimester pregnancy complications, leveraging YOLO, PyTorch, TensorFlow, and OpenCV.
- Applied NLP techniques to analyze physicians' inputs, enhancing system understanding and boosting response accuracy by 20%.
- Optimized language model development efforts, resulting in a 30% increase in model performance and a 40% improvement in user satisfaction.

Outlier AI

Prompt Engineer

Oct 2024 - Jan 2025

Remote-Indore

- Designed and optimized AI-generated responses by crafting effective prompts for various business applications.
- Conducted A/B testing on different prompt structures to enhance accuracy and coherence in AI model outputs.
- Worked closely with AI researchers and developers to fine-tune prompt strategies, improving contextual understanding and reducing biases.
- Created structured prompt libraries to standardize AI interactions across multiple domains.

Codsoft Infotech

AI and Data Science Intern

Jul 2024 - Sep 2024

Remote-Indore

- Developed AI projects using Flask and CNN, enhancing project efficiency and accuracy.
- Developed automated ETL pipelines for structured and unstructured data, reducing data processing time and improving data accuracy for analysis.
- Built predictive models to improve customer engagement strategies, leading to more personalized marketing efforts and increased customer retention.

SKILLS

- **Programming Languages:** Python, C++, Javascript, C, HTML, CSS, R, Scala
- **Libraries/ FRAMEWORKS:** Scikit-Learn, Numpy, Pandas, PyTorch, Keras, TensorFlow, Hugging Face, scipy, NLTK, Spacy, CNN, RNN, NLP, LLM, Computer Vision, YOLO, Machine Learning, Deep Learning, PySpark, MATLAB, MERN Stack, Tailwind CSS, BeautifulSoup, ReactJS, Matplotlib
- **Tools / Platforms:** Git, Github, VS Code, ChatGPT, API, Restful API's, FAST APIs, Figma
- **Databases:** SQL, MongoDB, MySQL, AWS, Google Cloud, Azure

PROJECTS / OPEN-SOURCE

Document Chat Application using RAG

<https://github.com/Sauham/Document-RAG-Chat-Application>

- Developed an AI-powered RAG-based Chatbot using LangChain, LlamaIndex, and OpenAI APIs, enabling efficient retrieval-augmented generation (RAG) for answering document-based queries.
- Implemented a vector database (ChromaDB) to store and retrieve document embeddings, optimizing search accuracy and response relevance.

- Built a scalable web interface using Streamlit, integrating user authentication and seamless document upload for interactive AI-driven conversations.

Fetus Location and Organ Detection

<https://github.com/Sauham/CV-Projects>

- Designed an object detection pipeline to identify fetal organs using YOLOv8 and Roboflow datasets.
- Developed an automated data handling system to manage empty label files and organize training data efficiently.
- Optimized the detection model's performance using Ultralytics and OpenCV, enhancing accuracy and reducing misclassification.

Data Extraction and Sentiment Analysis

<https://github.com/Sauham/Data-Extraction-from-URLs>

- Automated Web Data Retrieval: Developed a Python-based tool using BeautifulSoup to extract and process article text from multiple URLs.
- Sentiment Analysis Integration: Implemented TextBlob for sentiment analysis, computing polarity and subjectivity scores from extracted content.
- Data Processing & Storage: Structured extracted data using Pandas, saved results in Excel format, and optimized text cleaning with regex-based preprocessing.

Shopify-chat-bot

<https://github.com/Sauham/Shopify-chat-bot>

- Automated Shopify Sales Reports: Developed a cloud-based system that fetches real-time sales and order data using the Shopify API and sends automated reports via email.
- Google Cloud Integration: Leveraged Google Cloud Functions and Gmail API to streamline email report delivery with secure authentication.
- Task Scheduling & Optimization: Implemented a scheduled task automation system that runs daily at a set time, improving workflow efficiency.

CERTIFICATIONS

- **An Introduction to AI:** SAMATRIX.io
- **AWS Cloud Foundation:** Amazon Web Services