Sauham Vyas

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GitHub | Portfolio Site

Summary

AI/ML Engineer with extensive experience developing scalable AI solutions and robust full-stack applications. Proven track record in deploying recommendation systems, diagnostic models, and prompt engineering for LLMs, with expertise in Python, Docker, and cloud platforms. Adept at translating complex technical challenges into strategic, end-to-end innovations in fast-paced environments, while effectively bridging technical and non-technical teams.

SKILLS

- **Programming Languages**: Python, C++, Javascript, C, HTML, CSS, R, Scala
- **Libraries/Frameworks**: Scikit-Learn, Numpy, Pandas, PyTorch, Keras, TensorFlow, Hugging Face, scipy, NLMK, Spacy, CNN, RNN, NLP, LLM, Computer Vision, YOLO, Machine Learning, Deep Learning, PySpark, MATLAB, MERN Stack, Tailwind CSS, BeautifulSoup, ReactJS, Matplotlib, RAG, Generative AI, Fine tuning LLMS
- **Tools/Platforms**: Git, Github, VS Code, Chaturst, API, Restful API's, FAST APIs, Figma, n8n, Jira, Jenkins
- **Databases**: SQL, MongoDB, MySQL, AWS, Google Cloud, Azure

EXPERIENCE

Horeca Store — Mar 2025 - Present
AI Developer — *Remote-Dubai*

- Developed and deployed a bulk order recommendation system using customer purchase history, product categories, and seasonal trends, integrating full stack components to optimize B2B order volumes and inventory planning.
- Collaborated cross-functionally with product and engineering teams to integrate AI-driven recommendations into the Horeca Store platform, enhancing client retention and upsell opportunities while demonstrating strong communication and agile collaboration in a fast-paced environment.
- Researched and implemented advanced machine learning techniques, including collaborative filtering and RAG pipelines, to support personalization, forecasting, and decision-support features across the platform, aligning with current AI tools and innovative methodologies.

SETV Global — Jul 2024 - Feb 2025
AI-ML Engineer — *Remote-Indore*

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

Codsoft Infotech — May 2024 - Jul 2024
AI and Data Science Intern — *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

Devaditya Technocrats LLP — May 2023 - May 2024
Operations and Data Analyst — *Indore*

- Designed and developed interactive dashboards and analytical reports using Matplotlib and Pandas, visualizing key operational metrics such as inventory turnover, financial performance, and customer engagement trends.
- Led comprehensive data analysis initiatives using Python (Pandas, NumPy) and SQL, exploring historical financial records, vendor transactions, and operational KPIs to uncover inefficiencies and opportunities for optimization.
- Oversaw end-to-end data operations, including accurate data entry from legacy systems, creation of financial forecasting models in Excel (leveraging complex formulas, pivot tables, and automation tools), and documentation standardization.

EDUCATION

Sage University Indore, Dept-Instiue of Advance Computing Indore

Bachelor's of Technology (B.Tech), Artificial Intelligence *Indore, M.P*
- **GPA:** 8.4

Alpine Academy

PCM *Indore*
- **GPA:** 80%

PROJECTS / OPEN-SOURCE

Document Chat Application using RAG | Link
- 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.

AI Recommendation System | Link
- Built a modular AI Recommendation System leveraging collaborative filtering and content-based techniques to deliver personalized product suggestions across diverse user profiles and behaviors.
- Integrated Python-based data pipelines and machine learning models to process user interaction logs and product metadata, improving recommendation accuracy and relevance.
- Designed a scalable architecture using Flask for API deployment and ensured real-time response handling for seamless integration into eCommerce or SaaS environments.

Fetus Location and Organ Detection | Link
- 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 | Link
- 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.

CERTIFICATIONS

- **Advance Machine Learning**: https://verify.netcredential.com/roy8LbfRjD
- **Deep Learning**: https://verify.netcredential.com/roy8Pzl90d
- **AWS Cloud Foundation**: https://www.credly.com/badges/39ff689b-ec87-4443-87f4-0ee916cc245b/linked_in?t=rwcsoa
- **Machine Learning**: https://verify.netcredential.com/roy8Ui0SIi
- **Technology for PM**: https://hellopm.co/app/api/certi/S2CIXP