

# SAUHAM VYAS

AI/ML Engineer

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**LeetCode** | **Linkedin** | **GitHub**

## EDUCATION

<b>Sage University Indore, Dept-Institutue of Advance Computing</b> Artificial Intelligence Bachelors for Technology(B.Tech) <i>CGPA: 8.14(till 5th Semester)</i>	Indore, Madhya Pradesh September 2022 - September 2026(expected)
<b>Alpine Academy</b> PCM High School/CBSE <i>Percentage: 80%</i>	Indore, Madhya Pradesh April 2021 - July 2022

## EXPERIENCE

<b>SETV Global   AI-ML Engineer</b> • 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.	Remote-Indore   November 2024 - February 2025
<b>Outlier AI   Prompt Engineer</b> Developed innovative prompts for large language models using Python and NumPy, enhancing model accuracy and performance. Reviewed and debugged code with Git and GitHub, improving code quality and reducing production errors. Authored comprehensive technical documentation and guides, streamlining understanding and usage of AI tools in line with industry best practices.	Remote-Indore   October 2024 - January 2025
<b>Codsoft Infotech   AI and Data Science Intern</b> • Developed AI projects using Flask and CNN, enhancing project efficiency and accuracy • Developed automated ETL pipelines for structured and unstructured data. • Built predictive models to improve customer engagement strategies.	Remote-Indore   July 2024 - September 2024
<b>Cosmic365 AI   UI and Web developer intern</b> Assisted in designing and developing the company's website using Figma and JavaScript, contributing to a user-friendly interface Developed front-end components using JavaScript, enhancing the website's responsiveness and visual appeal Collaborated with team members to integrate front-end and back-end functionalities, ensuring seamless website performance	Remote-Indore   May 2024 - July 2024

## SKILLS

Programming Languages:	Python, C++, Javascript, C, HTML, CSS, R, Scala
Libraries/Frameworks:	Scikit-Learn, Numpy, Pandas, Pytorch, Kreas, 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

**Fetus Location and Organ Detection** | **Link** *Python,YOLOv8,Roboflow API,UltralyticsOpenCV,Pandas & NumPy*

- 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](#)** *Python, Spacy, Pandas, BeautifulSoup, requests*

- 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 | [Link](#)** *Python, Shopify API, Google Cloud Functions, Gmail API, HTTP Requests*

- 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.

#### **Codsoft-Infotech | [Link](#)** *Python*

- My work during the Internship at Codsoft Infotech

#### **Exploratory-data-analysis | [Link](#)** *Jupyter Notebook*

- This includes some of my data analysis performed for Credit Card Fraud detection and Advertising Data for Media Houses.

#### **Research Project: Brain Disease Prediction Using AI**

- Developed a machine learning model to detect brain diseases like Alzheimer's, Parkinson's, and Stroke using MRI scans.
- Utilized deep learning frameworks such as TensorFlow and PyTorch to enhance model accuracy.
- Conducted data preprocessing, feature engineering, and model optimization

#### **Research Project on Big Data Analytics**

- Presented in IEEE ICGREAT Conference at Sage University Indore, detailing the improvements in the handling of Big Data through HADOOP Searching .

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#### **CERTIFICATIONS**

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

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#### **HONORS & AWARDS**

- Gold Medal in NSTSE Science Olympiad