



ROHIT VYAVAHARE

Data Scientist/AI Engineer

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SUMMARY

As a **Data Scientist/AI Engineer**, I specialize in converting complex data into actionable insights to drive business outcomes. With expertise in **machine learning**, **deep learning**, **NLP**, and **Generative AI**, I deliver impactful solutions. Proficient in **SQL**, **Python**, and advanced **data visualization**, I leverage my skills in **statistics**, **data mining**, and **LLMs** to communicate findings and enable data-driven decisions.

SKILLS

- **Programming languages:** Proficiency in **Python** and **SQL** for data manipulation and analysis.
 - **Machine Learning:** Strong knowledge of supervised and unsupervised learning algorithms, including **SVMs**, **Logistic Regression**, **Linear Regression**, and **Clustering**. Experienced with machine learning libraries such as **Scikit-Learn**.
 - **Deep Learning:** Hands-on experience with deep learning techniques including **CNNs**, **RNNs**, **LSTMs**, **Encoder-Decoder architectures**, **Transformers**, and **BERT**. Familiar with deep learning frameworks such as **TensorFlow**, **Keras**, and **PyTorch**.
 - **Natural Language Processing (NLP):** Skilled in applying NLP techniques to analyze and extract insights from text data. Proficient in using NLP libraries such as **NLTK** and working with **GPT** models for text generation and understanding.
 - **API Development:** Proficient in building and deploying APIs using **FLASK & FastAPI**.
 - **Generative AI (GenAI):** Experienced with **GPT**, **LLaMA**, **Gemma**, **Mistral**, and **Ollama** models. Proficient in **Hugging Face** for deployment and fine-tuning. Hands-on with **LangChain**, **LangGraph**, and **GroqAPI** for AI workflows. Skilled in **FAISS**, **Chroma**, and **Neo4j** for vector search and graph storage. Expertise in **RAG** techniques, including embedding, **vector stores**, and **fine-tuning** methods like **LoRA** and **QLoRA**.
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PROJECTS

- **Insurance Claim Prediction Model:** Developed a model to predict customer insurance claims using demographic and behavioral data. Utilized classification algorithms such as **logistic regression**, **decision trees**, and **random forests** to build and evaluate models. Improved model performance through feature engineering and data preprocessing techniques. Achieved **97%** accuracy on the test set using the decision tree algorithm. [Link](#)
- **RAG Application for E-commerce Data:** Processed e-commerce JSON data into a readable format. Used **LangChain** and **Groq API** (LLaMA 3.3 70B model) for text generation and retrieval. Implemented **Hugging Face's all-MiniLM-L6-v2** embeddings and leveraged **FAISS** for efficient document search. Developed custom prompts to ensure accurate model responses. [Link](#)
- **Customer Segmentation Project:** Utilized **unsupervised learning** algorithms to group customers based on behavior and preferences. Conducted **exploratory data analysis (EDA)** and **dimensionality reduction** using **PCA**. Applied clustering techniques such as **KMeans**, **Hierarchical**, and **DBSCAN** algorithms. Evaluated results using **silhouette score**, with the DBSCAN algorithm yielding the highest score. Provided valuable insights for businesses to make data-driven decisions. [Link](#)

EDUCATION

- Bachelor of Engineering (BE) in Civil Engineering, Pune University, 9.10 CGPA, June 2020 - June 2023
 - **Secured first rank in academics**
- Diploma in Civil Engineering, MSBTE, 81%, June 2017 - June 2020
 - **Admitted to the Tuition Fee Waiver Scheme (TFWS) based on exceptional academic performance in 10th grade**
 - **Participated in several inter-college events**
- SSC, Horizon Academy, 82.20%, June 2016 - June 2017
 - **Award for 100% attendance**
 - **Received Exemplary Student Award**

CERTIFICATIONS

- Full Stack Data Science & Machine Learning Course (*Ekeeda School of Data Science*)
- Geoprocessing using Python (*Indian Space Research Organization (ISRO)*)
- Python for Data Science (*Corise*)
- Generative AI (*Euron*)

EXPERIENCE

Notable Accomplishments:

- **YouTube Success (January 2019 - May 2020):** Self-Employment - Content Creation, Achieved over 100,000 views on YouTube, showcasing the ability to engage and captivate a large audience.
- **Cost Optimization Achievement (January 2022 - March 2022):** Full-Time cum Internship - Aashirwad Dwarka Developers: Successfully fulfilled a dual role encompassing full-time employment and an internship, showcasing exceptional skills in cost management and achieving significant reductions in material costs while upholding the quality standards of various projects.

PERSONAL DETAILS

- Gender: Male
- Date of Birth: 15/07/2001
- Nationality: Indian
- Marital Status: Single
- Languages: English, Hindi, Marathi

Available for immediate joining. Willing to relocate.