ROHAN VINAY CHAUDHARY

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PROFESSIONAL SUMMARY

AI/ML specialist and VIT graduate with expertise in Python, NLP, Computer Vision, and AWS services like Bedrock and OpenSearch. Experienced in large-scale AI projects, including a Google client business analytics bot. Skilled in leveraging LLMs and cloud technologies to deliver innovative, high-performance solutions. Passionate about driving AI advancements and continuous learning.

EDUCATION

Vellore Institute of Technology (VIT)
INT. Master's in Computer Science with Specialization in AIML | *GPA: 8.4*
2024

CERTIFICATIONS

Associate Data Scientist & ML Scientist
DataCamp | July 2023

PROFESSIONAL EXPERIENCE

AI Engineer | Smollan | Bombay, India
Remote | June 2024 – Present

- Working on AI projects, focusing on business analytics and automation.
- Developed Large Language Models (LLMs) for data analysis and automation tasks.
  Skills Used: Python, NLP, TensorFlow, AWS, Docker.

Artificial Intelligence Intern | Smollan | Bombay , India
Remote | January 2024 – June 2024

- **Project**: Google Client - Business Analytics Bot
- Developed and fine-tuned LLMs for automating business analytics and reporting using **Python**, **TensorFlow**, **PyTorch**, and **BERT**, achieving 92% accuracy in text classification and entity recognition.
- Deployed models on **Google Cloud Platform (GCP)** using **BigQuery**, **Cloud Functions**, and **AI Platform**, reducing manual data processing time by 20% and improving system scalability.
- Automated reporting via **Tableau** and **Google Data Studio**, integrated with **RESTful APIs**, and optimized data pipelines, saving 200 hours per quarter and boosting query response time by 30%.
- *Skills Used*: Tableau, Google Data Studio, RESTful APIs, Scikit-learn.

Data Scientist Intern | Worko.ai | Bombay, India
Remote | July 2023 – December 2023

- Leveraged AI/ML algorithms and AWS Bedrock to evaluate and optimize LLMs like ChatGPT, Claude, and LLaMA, leading to a 15% improvement in inference speed and a 10% increase in accuracy for business applications.
- Managed data pipelines, including collection, cleaning, and preprocessing using **Python**, **Pandas**, **NumPy**, and **Matplotlib**, enhancing data processing efficiency by 25%.
- Collaborated with engineering teams to deploy machine learning models using **AWS SageMaker**, **Lambda**, and **S3**, streamlining workflows and ensuring faster, reliable deployment of AI solutions. Conducted data analysis with **Scikit-learn** and **TensorFlow**, extracting insights through regression analysis, classification, and clustering.
- *Skills Used*: AWS Bedrock, Python, Pandas, NumPy, Matplotlib, AWS SageMaker, Lambda, S3, Scikit-learn, TensorFlow.

Prompt Engineer Intern | MBS Studios | Singapore
Remote | February 2024 – July 2024

- Crafted innovative AI-driven prompts for generating in-game environments, characters, and thematic elements, improving concept art quality and reducing production time by 30%.
- Utilized generative AI models like DALL·E, MidJourney, and Stable Diffusion, optimizing prompt engineering strategies to ensure high-quality visual assets aligned with project artistic directions.
- Collaborated with game designers to adapt AI-generated content, using **Python** for prompt automation and API integration, which accelerated the iteration cycle for concept development. Implemented an iterative prompt-testing process, achieving a 20% reduction in manual post-processing time.
- *Skills Used*: DALL·E, MidJourney, Stable Diffusion, Python , Generative AI

AI/ML Engineer Intern | Accubits Technologies | Dubai, UAE
Remote | June 2023 – February 2024

- Consulted on AI strategies to enhance business processes, focusing on generative AI solutions to automate operations and boost efficiency.
- Developed and implemented machine learning models to streamline workflows and support AI workforce augmentation projects.
- Collaborated with cross-functional teams to identify opportunities for AI integration and improve operational outcomes.
- *Skills Used* Python, TensorFlow, Generative AI, NLP, Scikit-learn, AWS,

Web App Development Extern | whatsbuild | Bhopal, India
On-Site | December 2023 – January 2024

- Built a marketable web application using a low-code platform.
- Successfully launched the app on Product Hunt, gaining hands-on experience in web app development and deployment.
  Skills Used: JavaScript, HTML/CSS, Product Hunt, Low-Code Tools.

Data Scientist | Hexaberry Data Science Community | Chennai, India
Remote | May 2021 – January 2023

- Led market trend analysis and developed predictive models for sales forecasting.
- Implemented data management frameworks to ensure data accuracy.
  Skills Used: Python, SQL, Tableau, Machine Learning.

ML Intern | FrontRow | Bombay, India
Remote | August 2020 – January 2021

- Developed an ML-based recommendation engine to personalize course offerings, leading to a 30% increase in engagement.

- Worked with Python and TensorFlow to analyze user interaction data.
  Skills Used: Python, TensorFlow, Data Science.

PROJECTS and Outside Experience

OmniSense: Real-Time Behavioral Analysis System ([Link](#))
Remote | April 2024 –June 2024

- Developed an AI-driven system for real-time human behavior analysis using facial, hand, and pose detection.
- Implemented drowsiness and eye-tracking features to enhance safety and engagement in sectors like education and security.
- *Technologies*: Python, TensorFlow, OpenCV, Machine Learning.

Advanced Dog Breed Identification System ([Link](#))
Remote | May 2023 – August 2023

- Developed a dog breed classification model using Langchain and LlamaIndex for efficient image retrieval.
- Integrated transformer models for feature extraction, improving classification accuracy by 20%.
  Technologies: Python, Langchain, LlamaIndex, TensorFlow, OpenCV.

QnA from PDF BOT ([Live Link](#))
Remote | January 2024 – February 2024

- Created a bot that answers questions from PDFs using AI models and Flask for the backend.
- Ensured the system could process complex queries efficiently with a user-friendly interface.
  Technologies: Flask, OpenAI API, Python, GPT-3.

LLM from Scratch ([Link](#))
Remote | August 2023 – September 2023

- Built a basic language model from scratch using "The Wizard of Oz" text.
- Focused on pre-processing, character encoding, and training parameters to improve model efficiency.
  Technologies: Python, NLP, TensorFlow.

Text Summarization from Scratch ([Link](#))
Remote | November 2023 – December 2023

- Developed an application for text summarization using NLP and TensorFlow.
- Created a user-friendly interface for professionals and students to generate concise summaries.
  Technologies: Python, NLP, SpaCy, TensorFlow.

SKILLS & INTERESTS

Skills: Python, TensorFlow, NLP, Blockchain, Machine Learning, Computer Vision, AWS, Docker, Flask, Jupyter, SQL, Pandas, NumPy, TensorFlow, LLMs, MidJourney, GPT-3, OpenAI, Tableau, Data Science, HTML/CSS, JavaScript, Git, Figma, Adobe Illustrator.
Languages: English, Hindi
Interests: Reading, Networking, Public Speaking

ACHIEVEMENTS

- Video Intern at Broadcast2World & StudyStream, collaborating with clients like Disney.
- Google Developer Students Club Core Team Member (2021-2022).
- AI Club Leader at VIT (2021-2023).
- E-Cell Tech Team Leader at VIT (2022-2023).