SHIVAM BAHUGUNA

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Pune, Maharashtra India

Seatrium Engineering Mumbai Pvt Ltd

Experience: 6 months   Data Scientist

Data Scientist, Singapore Seatrium Team
- Developed AI-powered internal applications.
- Conducted research and development for new GenAI technologies like RAG.
- Collaborated with the Singapore Seatrium team to create innovative AI solutions.

Tata Consultancy Services

Experience: 3 years   Generative AI Developer

- **Custom Solutions**: I excel at crafting unique solutions and proof of concepts (POCs) to meet the specific needs of clients.
- **LLMs Mastery:** Proficient in fine-tuning and prompt-tuning state-of-the-art LLMs such as GPT-3, LaMini, PaLM, Flan T5, DALL-E 2, Falcon, and others. Achieved top-tier performance across various tasks, including text generation, translation, code generation, image generation, and text-to-speech.
- **Efficient Fine Tuning Techniques**: Developed and implemented efficient and effective PEFT (Parameter Efficient Fine-Tuning) techniques, like Lora and QLora, to enhance the capabilities of LLMs.
- **Innovative Prompt Engineering:** Devised and applied novel prompt tuning techniques to elevate the quality and controllability of LLM-generated outputs.
- **RAG Techniques:** Worked with advanced Retrieval Augmented Generation (RAG) integration with LlamaIndex for diverse data storage (relational, document, vector) to enhance Large Language Model (LLM) capabilities.
- **AI Applications**: Successfully implemented a wide range of AI techniques, spanning OCR, image generation, text-to-speech, and machine translation, to create powerful Generative AI applications.
- **System Design:** Designed and deployed scalable, efficient infrastructures tailored for managing and deploying Generative AI applications.
- **UI customization**: Pioneered user interface (UI) customization methods, enabling users to personalize the appearance and functionality of Generative AI applications according to their preferences.
- **Cutting-Edge Research:** Actively engaged in extensive research, including the exploration of published papers in prominent academic conferences and journals, to stay at the forefront of Generative AI and apply findings in specific real-world use cases.

- **Web application created:**
1. Automated Job Description Generator
2. AI-Infused Resume Creator
3. AI-Infused PowerPoint Generator
4. OCR Text Recognition

Other Roles:
- Converse L1 /L2 Engineer
- Nike SAP BI/BW Engnieer

Education

Liverpool John Moores University (LJMU)
2023-Pursuing M.Sc Machine Learning & Artificial Intelligence

University of Petroleum and Energy Studies.
2017-2021 UG Petroleum Engneering (72.3)

Certifications & learnings

Google -
- Google Cloud Certified for Associate Cloud Engineer.

Amazon -
- AWS - Cloud Practitioner
- Machine Learning Speciality: AWS

Six Signma -
- Lean Six Sigma White & Yellow Belt.

Ongoing Certifications -
- Professional Machine Learning Certification: Google

Tools & Portals

● Data Science: Jupyter Notebook, Python, Tableau, AWS SageMaker, Microsoft Azure ML Studio, Google Colab, TensorBoard, Kaggle, Vertex AI.
● SAP & Cloud : SAP Logon, SAP HANA STUDIO, SAP Business Explorer, SAP Analysis for Microsoft Office, Query Designer, ServiceNow, Autosys PRD RLS, Retail Portal, Pegasus, BI Launch Pad, Matillion ETL for Snowflake, CMC portals.

Projects

- Sentiment Analysis using CNN Deep learning
- Handwritten Text Recognition using Random Forest
- Content Creation using **GenAI**
- US Housing Price Analysis.
- Netflix Tableau Dashboard
- Google Form Automation
- Blood Bank UI Project

Skills

- SAP : BI, BW & BO
- ETL: Matillion, SAP_BW, Apache Beam
- Cloud Platforms : AWS, Azure, GCP (ACE Certified)
- Databases : HANA DB, SNOWFLAKE, PostgreSQL
- Data Visualisation : Apache Superset, Tableau, Cristal Reports, Looker Studio
- Data Science: ML, Deep Learning, Natural Language Processing, **GenerativeAI**, Statistics