

SHIVAM BAHUGUNA



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Pune, Maharashtra India

Tata Consultancy Services

Experience: ~2 years

Data Scientist (2021)

Generative AI Developer

- **Custom Solutions:** I excel at crafting unique solutions and proof of concepts (POCs) to meet the specific needs of clients. This means creating exactly what they want.
- **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 (Prompt Engineering 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.
- **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.

Nike SAP BI/BW Analyst

- Warehouse Data Monitoring: Improved overall uptime by 20% through regular communication with stakeholders.
- Documentation: Created flowcharts, diagrams, and other documentation to streamline processes.
- Incident Management: Achieved a 30% reduction in incident resolution time by utilizing the Service Now Portal.
- Data Analysis: Identified root causes of problems, resulting in a 15% decrease in recurring issues.
- Collaboration and Communication: Contributed valuable insights, leading to a 10% increase in project efficiency. Provided regular updates on deadlines, designs, and enhancements.
- Troubleshooting and Knowledge Base: Documented resolutions for the knowledge base, reducing issue resolution time by 25%.

Converse L1 /L2 Engineer

- Matillion Data Engineering: Utilised Matillion to design, develop, and manage data pipelines for seamless integration with Snowflake, a cloud-based data warehouse platform.
- Active monitoring of the system flows like between the Converse production system and the native HANA system conducted through SLT replication, with troubleshooting performed in case of connection issues or other related problems.
- Snowflake Expertise: Developed a deep understanding of Snowflake's architecture and ETL best practices, leveraging this knowledge to ensure optimal data integration and transformation within the platform. Utilized Snowflake's features, such as clustering, query optimization, and schema design, to enhance ETL performance..

Education

University of Petroleum and Energy Studies.
2017 Petroleum Engineering (72.3)

R.P.S Srinagar Garhwal Uttarakhand
2014 SSC (70) & 2016 HSE (70)

Certifications & learnings

Google -

- Google Cloud Certified for Associate Cloud Engineer.

Amazon -

- AWS - Cloud Practitioner

Six Sigma -

- Lean Six Sigma White & Yellow Belt.

Ongoing Certifications -

- Professional Machine Learning Certification: Google
- Machine Learning Speciality: Amazon

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