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Sagar Desai

AI ENGINEER

SUMMARY

"Once you stop learning, you start dying," - Albert Einstein's

Motivated and accomplished AI Engineers with over 7.5+ years of industrial experience, dedicated to continuous learning and staying at the forefront of cutting-edge technologies in the field of Machine Learning and Artificial Intelligence.
End-to-end expertise spanning from model development (ML) through to model hosting and maintenance (MLOps).
My passion lies in delving into the realms of Neural Networks, Large Language Models (LLM), and Reinforcement Learning (RL), where I consistently engage in research, implementation, and innovation.

Strive to embody continuous learning philosophy through my professional journey.

PROFESSIONAL EXPERIENCE

MLOps Engineer   Jul '22 - Present

Fractal Analytics   Bengaluru, IN

1. AI work
- Leading the development of LLM application using retrieval augmented generation (RAG)
  - Document generation - Develops a customized document basis provided git/local repository path
  - Architecture generation - Provides tailored MLOps architecture, template code basis user selection
  - Code converter - Converts code from a language to other, Alteryx workflows to python or SQL
- Actively expanding knowledge in areas such as Large language Models (LLM), Reinforcement Learning (RL), and Neural Networks (NN). Staying abreast with the latest research and advancements in the field of LLM.
- Experimenting with LLM agents. Building framework for llm agents

2. MLOps:
- Streamlined non-standard scoring pipelines to align with Python frameworks, reducing model building and debugging time by 50% and conserving resources.
- Contributed to data warehouse migration, ensuring seamless transfer of over 15 revenue-generating batch models and preventing business disruptions.
- Developed custom scripts to meet unique business requirements, automated workflows, and collaborated on new functionalities to enhance Python framework efficiency.
- Used Python, Domino, Airflow, SQL, Snowflake

Machine Learning Engineer   Jan '21 - Jul '22

Mercedes Benz   Bengaluru, IN

- Utilizing Machine Learning techniques to enhance accuracy, efficiency, and productivity.
- Conducting CAE analysis on automotive parts.
- Leveraging programming languages such as Python and tcl/tk to boost productivity.

ANALYTICAL METHOD ENGINEER   Feb '18 - Jan '21

American Axle and Manufacturing   Pune, IN

- Led analytical engineering efforts to interpret data and provide valuable insights for business decision-making.
- Innovated CAE methods to enhance correlation with test data.
- Established a fatigue analysis process to accurately predict part failure, improving reliability

FE ENGINEER   Jul '16 - Feb '18

GE Transportation   Bengaluru, IN

- Leveraged skills in CAE analysis for complex mechanical components.

Leveraged skills in CAE analysis for complex mechanical components.

- Boosted operational efficiency by 70% through the development and implementation of automation scripts.
- Played a key role in the successful progression of multiple projects.

EDUCATION

Post Graduation Certification in Machine Learning and Artificial Intelligence   Jun '20 – Aug '21

IIIT Bangalore & upGrad   Bengaluru, IN

- **Course Modules:**
  - Data Analysis in Excel | Analytics Problem Solving | Data Analysis using SQL | Introduction to Python
  - Programming in Python | Python for Data Science | Inferential Statistics | Hypothesis Testing
  - Introduction to Machine Learning and Linear Regression | Logistic Regression | Tree Models

MTech in Mechanical Engineering   Jun '14 – Aug '16

VIT,Pune University   Pune, IN