R.Sarath Kumar

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📍 Bengaluru, Karnataka.

WORK EXPERIENCE

Machine Learning Intern   Feb 2024 - Present
Antern

- Implemented advanced NLP machine learning models, resulting in a 20% enhancement in accuracy over baseline performance.

- Implemented cutting-edge deep learning algorithms, including Transformers and CNNs, enhancing multi-model application performance by 25%.

- Created and optimized machine learning pipelines using TensorFlow and PyTorch, enhancing predictive performance by 20% on key metrics.

Data Science Intern   Sep 2022 - Jan 2023
IIT-Madras

- Developed and launched a recommendation engine, increasing average order size by 12% and enhancing customer satisfaction metrics

- Implemented advanced time series forecasting techniques, reducing customer wait times by 10 minutes and boosting order fulfillment efficiency by 25%.

- Leveraged client interaction data analysis to enhance collaboration with product and marketing, resulting in an 18% rise in service opt-ins.

SKILLS

Core Skills: Machine Learning, MLOPs, Deep Learning, Python, NLP, Data Analysis, SQL,PostgreSQL.
Frameworks and Libraries: TensorFlow, PyTorch, Scikit-learn, Hugging Face, OpenCV, NLTK
Databases: MongoDB, MySQL
MLOPs : ZenML, MLFlow, BentoML, Weight & Bias
Tools: Docker, Streamlit, Flask, FastAPI, Linux.

PROJECTS

1.Automated Machine Learning Pipeline for Customer Churn Prediction

- Built an end-to-end machine learning pipeline to predict customer churn using **ZenML** for modular and automated workflows.Integrated **MLflow** for experiment tracking, logging metrics, and managing model versions.

- Deployed the final model using **Docker**,**FastAPI** and **Huggingface** ensuring seamless integration into production environments.

- Automated repetitive processes, reducing manual intervention by 70%, which enhanced overall system efficiency by 25%.

2. End-to-End Sentiment Analysis Using Pretrained Transformer Models

- Designed an end-to-end sentiment analysis solution using **DistilBERT-cased**, achieving 90% accuracy in text classification on benchmark datasets.

- Automated an ML pipeline using **ZenML**, enhancing efficiency by 40% with integrated stages for data ingestion to evaluation.Implemented **MLflow** for experiment tracking, reducing model tuning time by 30% while managing over 50 versions through model registry.

- Deployed a scalable model on Hugging Face Spaces, improving deployment efficiency by 30% using Hugging Face Transformers.

3.TalentScout-AI Hiring Assistant

- Engineered a Gemini AI API-based platform, reducing time to generate technical interview questions by 70% through automated skill set extraction.

- Designed a resume parser to extract key candidate information from the resume, increasing question generation accuracy by 25%.

- Deployed a feature enabling real-time saving of candidate responses in JSON format, reducing recruitment evaluation time by 20%.

EDUCATION

IIT Madras June 2022 - Dec 2022
Advanced Professional Master Program in Data Science

Shanmuga Industries Arts And Science College, Thiruvannamalai June 2022
B.Sc. Biotechnology
C.G.P.A — 8.5

CERTIFICATION

- **Advanced Professional Master Program in Data Science** *Sep 2022 - Dec 2022*
  IIT- Madras

- **Data Science & Machine Learning** *June 2022 - Dec 2022*
  Guvi ,Chennai