

YASHWANTH B C

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Skills

- Programming languages: Python
- Data Manipulation and analysis: Pandas, NumPy
- Data Visualization: Matplotlib, Seaborn
- Machine learning libraries: Scikit-Learn, Keras, Tensorflow
- NLP & LLMs: Hugging Face Transformers, LangChain, OpenAI API, BERT, GPT, Ollama
- Mlops: MLflow, Lang serve *Database: SQL *Web frameworks: Streamlit, FastAPI
- Concepts: Supervised, Unsupervised, Deep Learning(Neural networks, CNN, RNN), Model evaluation

Experience

MACHINE LEARNING ENGINEER | INFOSYS | AUGUST 2022 – PRESENT

- Developed predictive machine learning models with the Scikit-Learn library by applying various supervised and unsupervised algorithms, including SVM, Decision Trees, Random Forest, and k-NN, to tackle complex business challenges, leading to a 20% improvement in targeted marketing effectiveness.
- Developed machine learning pipelines and preprocessing workflows with Scikit-learn, incorporating model evaluation and hyperparameter tuning using RandomizedSearchCV, while leveraging regularization and cross-validation to mitigate overfitting, resulting in a 30% reduction in data preparation time and 15% improvement in model performance.
- Performed data manipulation and visualization with Python libraries i.e. Pandas, Matplotlib, Seaborn to identify trends and feature selection, resulting in improved model accuracy
- Developed custom Generative AI models using LangChain for document generation, content summarization, and contextual chat applications, NLP tasks and leveraging fine-tuning techniques to optimize model performance.
- Designed and implemented Retrieval-Augmented Generation (RAG) pipelines using LangChain, FAISS for knowledge-based AI applications.
- Experienced in deploying ML models in Azure, leveraging MLflow for experiment tracking, parameter tuning, model versioning, and integrating models as APIs using FastAPI.
- Collaborated with software engineers to embed machine learning and Gen AI solutions into existing applications, improving both user experience and overall functionality.

Project

- **Employee Turnover model:** Developed a machine learning model to predict employee turnover, achieving a 91% AUC- ROC score, identifying key factors like salary growth, promotions, and job satisfaction, and proactively reducing recruitment costs.
- **Finetuned RAG design model:** Developed a Retrieval-Augmented Generation (RAG) application for the design team, incorporating a fine-tuned LLM model to streamline task-specific content generation and reduce effort for technical justification.

Education

- Pre-University Course
Shree guru, Gulbarga (88%)
- Bachelor of Engineering
Siddaganga institute of technology, Tumkur (CGPA-8.4)

Certificates

- Python for Data Science
- Machine learning using Python