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Education

Executive Post Graduation IIIT,Bangalore, 2022-2024

Preparation Higher studies and IES Exam , 2016,2019

Bachelors of engineering Pune University,2013-2016

Diploma Polytechnique MSBTE,2013-2016

SSC MSBSHSE,2010

Certification

Microsoft Certified Azure AI Engineer

Expertise

AI/ML, MLOps,LLMOps, Docker, Git/BitBucket

Statistical Tools

- Sci-kit-Learn,Pandas,NumPy,Matplotlib, Seaborn,Tensorflow, Keras,Pytorch, Spacy, NLTK,cv2

Machine Learning

- EDA, Feature Engineering, Feature Selection, Linear Regression, Logistics Regression, KNN, Decision Tree, Random Forest, SVM, Adaboost.

Deep Learning/Computer Vision

- ANN, Layer-Normalizations, Regularizations, Dropouts, Weight-Initializations, Optimizers
- RNN,LSTM,GRU,CNN-Data-Augmentations, Transfer-Learning, Encoder-Decoder

NLP

- Tokenization,Stemming, Lemmatization,CounterVectorizer,Tf-Idf,Word2Vec, CBoW, N-gram, Similarity Metrics, OOV, NER, POS, Bert

Gen AI-Langchain

- Transformer-Architecture,Attention-Mechanism, Huggingface-Pipeline,DocumentLoader, RecursiveCharacterTextSplitter,Prompt-Templates, Embedding-Model,VectorStore,Rag-Architecture-Indexing, Retrivers, Generations,
- Agent,chains,MapReduce,Temperature,Top_P,Top_K ConversationMemory,
- Llama3,Gemini1.5-Pro,GPT-3.5,GPT-4,GPT-4o,Mistral,

Langauges:

- Python, Pyspark, SQL

WebFramewrok:

- Flask, FastAPI, RestAPI, Streamlit, Gradio,Postman

DataBase

- MYSQL,PostgreSQL,Snowflake, DynamoDB, Azure-CosmosDB, Pinecone VectorDB

Cloud Proficiency

- **Aws Cloud**-Sagemaker, Glue Job, S3, Model-Registry, EMR,Cloud Watch, SNS, Secret Manager,load Balancer
- **Azure Cloud** -Blob-Storage, Azure Functions for Event Based Triggers, Azure Web App, Container Registry,azure monitoring and applications insights,Kay-Valuts,API Manageement,AutoScaling,Load balancer

Ajeetkumar Ukande

Data Scientist Xoriant Solutions Pvt. Ltd, 05/07/2024 - Present
Senior Analyst -MLE Tiger Analytics 20/06/2022-03/07/2024
ML Developer - Grasp Technologies 01/06/2020-13/06/2022

A passionate AI/ML/Data Science enthusiast with **5** years of experience building and deploying end to end AI/ML solution for different business use cases. Skilled in implementing AI/ML solutions across Health, Insurance,Banking and Finance, CPG, Manufacturing. Proficient in the data science cycle from problem identification to delivering tangible business value. Conducts comprehensive data analysis to estimate impact, validate hypotheses, and address stakeholder's inquiries. Excels in preparing data, developing scalable models, and ensuring their effectiveness in solving complex problems.

Experience

2024 - Present

Xoriant Solution- Data Scientist

1. **Implemented GenAI Powered Tool For Automated Quality Check & Security Vulnerability Detection and Automate Decision Making**

- Designed and Implemented an GenAI-based solution to **automate Jira Story/Epic review for quality check and security vulnerability checks.**
- Utilized **Google Gemini Flash Model** for LLM-driven **synopsis generation**, in-depth **quality analysis, and security checks** as per **domain-specific and tagging issues and scoring risks.**
- Implemented **Automated risk scoring rating** based on changes across domains and classified them as Major and Minor Based on rating. Provide IS Reviewers with stories tagged with Risk Ratings for final decision-making**. Auto-approve** stories with no security risks and high quality which helped business to **reduce manual effort of IS Review Team by 90%.**
- **Tool Stack** - Gemini Flash LLM Model , R2D2, Python, Streamlit, FastAPI, JiraAPI

2. **Built a GenAI RAG Based Chatbot Application for Business Use Case Which Helps Businsess to Reduce Manual Service Time of Product.**

- Integrated AWS S3 data with **Azure File Share**, enabling seamless data transfer for chatbot application. Integrated Azure Functions to trigger **Azure Document Intelligence** call for data extraction, then performed data preprocessing , data chunking and vector embedding, storing vector embedding index in **Azure AI Search**(congitive search). Implemented **RAG** based architecture for **indexing**, **retrieval** and **generations**. Built the api for integration with **Azure app services** for deployment. Helped business for ease of maintenance activity of different heating,ventilation and air conditioning product and reducing service time by 40%.

2022- 2024

Tiger Analytics- Machine Learning Engineer

3. BUILT A RESIDENTIAL FIRE INCIDENT CLASSIFICATION MODEL USING ML/NLP TO ENHANCE BUSINESS EFFICIENCY BY REDUCING MANUAL WORK AND OPTIMIZING BUSINESS CAPACITY

- Implemented an automated solution to **enhance business efficiency by 50%**, deploying **MLOps** on **AWS**. Utilized **AWS Glue** for end-to-end data pipeline, extracting data from the **case manager database** to **Snowflake** and **S3**. Employed **SageMaker** for preprocessing and model building used python for developement, leveraging MLOps for deployment, **dockerization**, and storage of best models in SageMaker **Model Registry**. Utilized SageMaker **experiment tracking** to triage model combinations, ensuring competitive models for SageMaker Model Registry. Integrated predictions with **MySQL** for AgilePoint frontend, effectively **preventing from high legal penalties**, reducing manual workload, and optimized the existing business review process **complicated 3-stage review to 2-stage in**cident review.

4. **Test Cases Validation Using GenAI for Data Validation (ETL Process)**

- Developed a GenAI-based solution in ETL pipelines, ensuring data integrity, consistency, and accuracy. Improved the **efficiency of data validation processes by detecting anomalies** and discrepancies in large datasets.

2020- 2022

Grasp Technologies- ML Developer

5. BUILT ETL PIPELINE FOR MODELLING DATASETS(BIG DATA PROCESSING)

- Built ETL pipelines on AWS using **Lambda** and **Glue**, processing 21M records, with ETL 1 loading raw transactions into staging tables and ETL 2 creating model datasets for downstream cosumptions.Used Pyspark for developement.