Akanksha Gupta

Lead Software ML Engineer

Goal-Oriented ML Engineer with 5.5 Years of Experience who has consistently completed projects on time and within budget. Willing to leverage my skills in every possible ways to come up with innovative solutions.

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WORK EXPERIENCE

Lead Software Eng.
Persistent Systems
08/2021 - Present
Achievements/Tasks

- Experienced in creating End-to-End ML pipelines On Vertex AI using Kubeflow components or TFX and containerized deployment of same on cloud for Inference.
- Created demo project on Chicago-taxi dataset(predicts fare) using TFX Pipeline on vertex ai , **Keras** model , keras tuner for hyperparemeter tuning.
- Experienced in fine-tuning NLP models using BERT and building **docker** images.
- Worked on created chat bot application for company personal data using Open AI GPT API's.

Programmer
Fidelity International
07/2018 - 07/2021
Achievements/Tasks

- Trained classification models using AutoML and other boosting algorithms.
- Python scripts to update content in the database and manipulate files and Python libraries(Pandas, Numpy) for data analysis.
- Developed Complex database objects like Stored Procedures, Functions, Packages using SQL and PL/SQL.

PROJECT

GenAI POCs
- POC on how to implement **LLMOps** & finetune model using LLM models.
- Used **Document AI**(GCP Product) for building app that provides document search using different parser like OCR ,Form parser etc.

SKU Sales prediction(Time Series)
- Worked on creating the preprocessing pipelines for extracting data required for modelling & Training pipeline that train time series data on **vertex AI** using **AUTO ML.**
- Analysis on model predictions to catch the area where performance is bad & Increased **Model A**ccuracy by adding useful features like product similarity.
- Used WAPE as performance metric.

Semantic Image Search(NLP)
- Used the **CLIP** model to enhance the search capability.Given a query model returns the best matched images and can distinguish between the plural/singular things from query itself.
- Deployed the model on Cloud Run.

NOVA-Chat Bot
- Chat Bot using companies personal docs , Videos & structured data stored in **BigQuery** to save users time.
- Used **GPT 3.5 API** for fetching the response for users prompt.
- Containerized authenticated apps are deployed on Cloud Run .

SKILLS

Python | Machine Learning | Deep Learning | GenAI | LLM | Python Libraries | Numpy/Pandas/Scikit | GCP | VertexAI | Tensorflow | Keras | MLOPS | Natural language Processing | Transformers/BERT | CNN/RNN/LSTM | ML algorithms | Neural Networks. | Docker | Power BI | Flask | GIT/SVN | Statistics | Database | API | Data Structure | Data Analysis

EDUCATION

B.TECH(COMPUTER SCIENCE)
Deen Bandhu chotu Ram university (7.86 CGPA)

Higher Education
Pratap Public School(91%)

CERTIFICATES

Google professional Cloud Architect.

Google professional Machine Learning.

Google professional Data engineer.

PYTHON (HACKER RANK)

LANGUAGES

English
Full Professional Proficiency

Hindi
Native or Bilingual Proficiency

ACHIEVEMENTS

In top 8 out of 100 Team in Persistent Semicolon(hackathon)

Gold badge in python(Hackerank)