Praveen Vishwakarma

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Profile Summary

A resultsoriented Data Scientist with 3 years of academic plus 1.5 years of indust

in designing, developing, and deploying
scalable software solutions. Proficient in frameworks such as Flask, Django, and FastAPI, with expertise in data processing
development, and automation. Known for optimizing workflows and reducing operational inefficiencies with robust Python s

Education

IIT Hyderabad
Aug 2021 Jun 2023
M.Tech. in Computer Science and Engineering
Government Engineering College, Jabalpur
Aug 2016 Jun 2020
B.E. in Information Technology

Work Experience

Axtria, Bangalore
Aug 2023 – Dec2024
Data Scientist

- Sped up incident resolution by **40%** and enhanced system reliability with a largescale database monitoring system using Azure monitor, azure cosmos DB.
- Created an LLM integrated JS application that takes user input in plaintext and retrieves insights from Graph database saving the complexity of writing tedious cypher queries.
- Achieved **3x faster** query execution and streamlined deployment by migrating legacy databases to SQL Server using SQL Server, Docker, Kubernetes.
- Developed a robust **20% faster** and near perfectly available API to manage millions of daily requests for a global content delivery platform using azure service bus.
- Reduced data processing time by **50%** by transforming unstructured business data for realtime analysis using azure data factory and azure SQL DB.

Skills

Languages :
C/C, Java, Python, SQL, shell script, pyspark
Frameworks:
Flask, FastAPI, spark, numpy, pandas, reactJS, nodeJS, AngularJS, vueJS
ML/AI:
Neural networks, supervised/unsupervised learning, LLM, LSTM, CI/CD, , databricks, MLflow,
Other tools:
Kubernetes, mongoDB, GCP, ETL,docker, agile, scrum, mySQL, microservices, git, CI/CD

Projects

Low light image enhancement
:
Crafted a
30 times faster
model for developing poorly lit images using a novel technique
called zeroDCE (zero reference Deep Curve Estimation).

DeepFake Detection using GAN:
Conceived a fake image detector by training two neural networks, one generated fake images and the other classifies it as fake or genuine.

Dynamic Thermal Management
:
Achieved
42%
cool down in stacked chip processors by developing a novel algorithm.

Cluster resource optimization tool
:
Designed a
25%
more efficient AIdriven cluster optimization tool for distributed environments
using K8s, tensorflow.

TelemetryBased Insights Platform:
Minimized downtime by
15%
in a realtime telemetry analysis platform, through
predictive maintenance using powerBI, azure event grid, python.

Middleware Integrated Messaging:
Reduced latency in data delivery by
40%
with a middlewarebased messaging system for real
time data exchange in IOT applications

Neural Networks and Convolutional Neural Networks essential training.

AWS certified cloud practitioner

DataBase Administrator from Linkedin

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