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www.github.com/abhiksark

www.abhik.xyz

Skills

- **Language :** Python, C++, JavaScipt, Shell
- **Databases:** Redis, MongoDB, PostgreSQL, Milvus, Qdrant
- **Frameworks:** PyTorch, TensorFlow, Pandas,NumPy, Scikit-Learn, Matplotlib, FastAPI, NextJS, ReactJS, HuggingFace, Flask, MLFlow, W&B, LangChain
- **Tools & Technologies:** Git, Conda, Docker, Kubernetes, Jenkins, Elastic Search, VSCode, TensorRT, Apache Kafka, GCP, CUDA, Grafana, Docker Compose, Kibana, Ollama, CMake

Education And Training

12/2023
High Performance Computing:
CCE, IISc
Bangalore

- Completed coursework in OpenMP, OpenMPI & OpenACC.

ABHIK SARKAR

Summary

Results-driven Machine Learning Engineer with expertise in designing and optimizing scalable ML systems. Proven ability to manage applications throughout the software development lifecycle, ensuring timely delivery and resource optimization.

Experience

Cloudastructure Inc - Director, Machine Learning
Remote
11/2020 - Current

- Built and led a high-performing ML team, fostering expertise in deep learning and scalable AI solutions.
- Designed and implemented a **robust model version control pipeline**, ensuring reproducibility and seamless tracking of model changes.
- **Automated ML operations**, enabling scalable retraining and efficient model orchestration.
- Optimized the ML pipeline, scaling video processing from **100K to 3M daily**.
- **Led cloud-to-colocation migration**, reducing infrastructure costs by **75%** while maintaining uptime and data integrity.
- **Collaborated cross-functionally** with **DevOps, Frontend, and Backend** teams to integrate machine learning models into production, ensuring seamless deployment and efficient scaling.
- Negotiated with external stakeholders to offset operational costs, securing significant financial savings.
- Integrated a **'human-in-the-loop'** AI-assisted annotation workflow, improving model accuracy through iterative feedback.
- Pioneered **GenAI-driven synthetic data generation and automated annotation**, **boosting human annotation efficiency by 10x** and enhancing data quality.

12/2020
CS224w Graph Machine Learning:
Stanford Continuing Studies
Online

- Specialized in advanced machine learning for graph data.
- Proficient in graph neural networks and network embedding techniques.

2019
Data Analyst Nanodegree:
Udacity

- Skilled in applying statistical methods using Python for data analysis.
- Capable of leveraging Python libraries for statistical analysis and hypothesis testing.

05/2018
B.Tech Computer Science:
National Institute of Technology
Raipur

- Thesis: Estimation of Stage in Diabetic Retinopathy Detection using CNNs.
- https://github.com/abhiksark/Diabetic-Retnopathy-Classification-ConvolutionalNeuralNetwork

Quantiphi Analytics Solution Pvt Ltd - Machine Learning Engineer
Mumbai, India
04/2019 - 11/2020

- Engaged in the Video Intelligence Team at Athena's Owl, a media-based AI product company.
- Responsible for generating new AI features in the product.
- Engineered a product enabling marketers to catalog sports moments from thousands of hours of video using a pipeline for classification, object detection, and Siamese Networks.
- Contributed as an engineer to a cutting-edge project aimed at developing a comprehensive athlete tracking solution across different sporting categories for a major global sporting event. Focused heavily on OCR and tracking. Ensured **strict adherence to GDPR (General Data Protection Regulation)** guidelines throughout the development process, prioritizing the protection of athletes' privacy and data rights.
- Implemented advanced technology solutions in various media PoCs to highlight their transformative effects.

Deloitte - Business Analyst
Hyderabad , India
06/2018 - 03/2019

- Certified in the industry-leading Workday Integrations Platform for advanced human resource management solutions.
- Participated in a significant project transitioning an international bank's HRMS from on-premises to cloud-based Workday.

Career Milestones

- Contributed to the company's intellectual property portfolio by **applying for two provisional patent** which was derived off my work
- Promoted to the position of Director of Machine Learning due to my serious efforts, where I assumed complete responsibility for overseeing and leading all machine learning work within the organization.
- Delivered Talks on Cython in **Pycon India 2024 and Pycon Japan 2024** , Prompt Engineering & Image Generation at Google Devfest, sharing insights and expertise with a diverse audience of developers and enthusiasts.

References

References available upon request.