MANIRAJ SAI

MACHINE LEARNING ENGINEER

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Groningen, The Netherlands
(Willing to Relocate)

thecr7guy2.github.io

APPLIED AI SKILLS

Deep Learning frameworks

- PyTorch
- Tensorflow
- Huggingface

Machine Learning Libraries

- Algorithm and analysis
  - Scikit-learn, XGBoost, pandas, NumPy, SciPy
- Visualization
  - Matplotlib, Seaborn, Plotly
- Computer Vision
  - OpenCV, Scikit-Image

DEVELOPER SKILLS

Programming Languages

- High level
  - C, C++, Python, Matlab
- Other
  - SQL, Bash

Code quality and Testing

- Linting
  - Pylint, flake8
- Testing
  - unittest, pytest

PROFESSIONAL SUMMARY

Highly-motivated AI graduate with a proven 2-year track record of applying advanced analytics to drive key business decisions and innovative solutions. Specializing in MLOps, I excel in enhancing the collaboration between data science and operations teams, ensuring seamless integration and deployment of machine learning models in production environments. Actively seeking opportunities to enhance my skillset and impact the industry.

EXPERIENCE

July 2023 – October 2023
Kickstart AI | Delft

NLP Intern

- Developed a production-grade AI solution to accurately forecast IPC ratings through analysis of local news articles from the Horn of Africa.
- Effectively utilized machine learning algorithms like LDA and Zero-shot classification, on large datasets to refine food security classifications, contributing to a 6% improvement in prediction accuracy.

July 2022 – October 2022
Fruitpunch AI | Eindhoven

AI for Good Engineer

- Engineered an AI-driven computer vision solution in partnership with JustDiggit, tailored for counting individual trees to aid the reforestation of African nature.
- Spearheaded weekly team meetings, ensuring effective communication, collaboration, and progress tracking.

February 2020 – May 2021
24x7 FSC | Bangalore

Data Analyst

- Performed sentiment analysis on customer communication, providing key insights for customer satisfaction strategies.
- Played a key role in designing dashboards leading to a 15% increase in stakeholder satisfaction and usability.
- Conducted in-depth market research to develop procurement strategies and effectively identify key suppliers.

CLOUD OPERATIONS & DATA SYSTEMS

Cloud Platforms
- AWS
- GCP

Workflow Orchestration
- Prefect
- Mage

Containerization
- Docker

Monitoring and Logging
- Grafana
- Prometheus

Experiment Tracking and Management
- MLflow
- Weights & Biases

Database Management Systems
- PostgreSQL
- MySQL
- MongoDB
- DuckDB

Business Intelligence Tools
- Apache SuperSet
- Microsoft Power BI
- Tableau

LANGUAGES

English (Fluent)

Telugu (Native)

Tamil (Fluent)

Dutch (Basic)

EDUCATION

September 2021 – September 2023
University of Groningen| The Netherlands
MSc Artificial Intelligence
- Thesis on "Estimating Uncertainty in GANs for Super-resolution".

April 2015 – April 2019
Kumaraguru College of Technology | India
BSc Computer Science
- Thesis on "*Hospital Ambience Monitoring using LoRaWAN*" .

PROJECTS

October 2023 – December 2024
PricemyRide: Used Car Valuation with MLOps
- Engineered and deployed a AI-driven model for predicting pre owned car prices at *Prakruti Travels*.
- Orchestrated a comprehensive MLOps workflow, optimizing model training and deployment processes, which directly led to a 20% increase in prediction accuracy.
- Implemented an advanced monitoring system, ensuring dynamic responsiveness to volatile data changes and consistently high prediction accuracy.

December 2023
Eredivisie insights: Real-Time Eredivisie Analytics Dashboard
- Designed and implemented robust ETL pipelines for aggregating and processing comprehensive league data.
- Crafted dynamic dashboards to visualize Eredivisie statistics, effectively incorporating KPIs for comprehensive and insightful trend analysis.

December 2022 - September 2023
Estimating Uncertainty in GANs for Super-resolution
- Developed an innovative approach in GAN-based super resolution by incorporating uncertainty estimation techniques, significantly enhancing the model's ability to identify and address areas of inaccuracy and uncertainty in image generation.
- Explored the practical applications of GANs with uncertainty in critical fields such as medical imaging and computer vision.

References

Dr. Matias Valdenegro Toro
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Dr. Dakshayini kanna
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