MANIRAJ SAI

(31) · 684011721 ✉ manirajadapa@gmail.com 🔗 linkedin.com/in/manirajsai ⚙ github.com/thecr7guy2

PERSONAL PROFILE

Highly-motivated AI professional with a proven 2-year track record in developing AI-driven models. Demonstrates expertise in orchestrating MLOps workflows, ensuring efficient model lifecycle management from development to deployment. Passionate about leveraging advanced technologies to solve real-world challenges, and eager to contribute as an ML Engineer, Data Engineer, or Data Analyst.

WORK EXPERIENCE

NLP Intern   Jul 2023 – Aug 2023
Kickstart AI   *Delft, NL*

· **Tech Stack:** Python, Pytorch, Hugging Face.
· Developed a production-grade model 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.

Teaching Assistant   Sep 2022 – Nov 2022
University of Groningen   *Groningen, NL*

· Supported course delivery and student learning through practical session facilitation and assessment assistance.

AI for Good Engineer   Jul 2022 – Oct 2022
Fruitpunch AI   *Eindhoven, NL*

· **Tech Stack:** Python, Pytorch, Geopandas, OpenCV.
· Engineered an AI-driven computer vision solution in partnership with FruitPunch AI and JustDiggit, tailored for counting individual trees to aid the reforestation of African nature.
· Spearheaded weekly team meetings, ensuring effective communication, collaboration, and progress tracking.

Data Analyst   Feb 2020 – May 2021
24x7 FSC   *Bangalore, IN*

· **Tech Stack:** Python, Power BI, Tableau.
· 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.

PROJECTS

PricemyRide: Used Car Valuation with MLOps   Nov 2023

· **Tech Stack:** Python, Scikit-learn, XGBoost, Docker, Flask, Gunicorn, AWS (EC2, S3), Grafana, Streamlit, MLflow, PostgreSQL, Evidently.
· 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.

Eredivisie insights: Real-Time Eredivisie Analytics Dashboard   Dec 2023

· **Tech Stack:** Python, Apache Superset, Prefect, Docker, PostgreSQL, AWS (S3, Athena, Glue).
· Designed and implemented robust ETL pipelines for aggregating and processing comprehensive league data.
· Crafted dynamic dashboards to visualize Eredivisie's statistics, effectively incorporating KPIs for comprehensive and insightful trend analysis.

Estimating Uncertainty in GANs for Super-resolution   Dec 2022 - Sep 2023
Thesis

· **Tech Stack:** Python, Pytorch, Hugging Face.
· 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.

EDUCATION

University of Groningen   Sept 2021 - Sept 2023
Masters in Artificial Intelligence   *Groningen*

· Specialized in the Computational Intelligence track, CGPA: 8.0/10.0
· **Courses :** Machine Learning; Pattern recognition; Deep Learning; Computer vision; Natural Language Processing; Handwriting Recognition

TECHNICAL SKILLS

Languages: Python, SQL, Matlab, C, LaTeX.

Frameworks & Libraries : PyTorch, Tensorflow, Scikit-learn, SQLAlchemy, Scrapy, Flask.

Data Visualization & BI Tools : Tableau, PowerBI, Apache Superset.

Developer Tools: Git, Docker, Google Cloud Platform, Amazon Web Services, Prefect, MLflow, Weights & Biases.

INTERESTS AND LANGUAGES

Interests: Reading manga, Hiking, Baking and Playing video games.

Languages: English (Fluent), Dutch (Basic), Telugu (Native), Hindi (Fluent), Tamil (Advanced).

References available upon request.