

MANIRAJ SAI

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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

Kickstart AI

Jul 2023 – Aug 2023

NLP Intern

Delft, NL

- **Tech Stack:** Python, Pytorch, Hugging Face, SentenceTransformers
- Developed a production-grade model to accurately forecast IPC ratings through analysis of local news articles from the Horn of Africa.
- Contributed to the development of user-friendly dashboard for model outputs, improving accessibility for non-technical team members and stakeholders.

Fruitpunch AI

Jul 2022 – Oct 2022

AI for Good Engineer

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.

24x7 FSC

Feb 2020 – May 2021

Data Analyst

Bangalore, IN

- **Tech Stack:** Python, Power BI, Tableau, BeautifulSoup, NLTK
- 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, Unicorn, 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.

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

INTERESTS

 Cycling

 Basketball

 Football

 Automation