KANISHKA WAGHMARE

Data Scientist | Neuroscientist

+31-686022907 kanishkatks@gmail.com kanishkawaghmare.com linkedin.com/in/kanishka-waghmare
Amsterdam, Netherlands github.com/kanishaktks

SUMMARY

Data Scientist and Neuroscientist with 8+ years of experience in research, machine learning, and statistical modeling. I specialize in translating complex, unstructured data into clear, actionable insights. Skilled in Python, end-to-end ML workflows, and communicating results effectively to diverse stakeholders. Passionate about the evolving role of generative AI and intelligent automation in driving smarter, faster decision-making. I thrive in collaborative environments and aim to build data-driven solutions that create meaningful impact across industries.

PROJECTS

Smart EDAtool – Automated Exploratory Data Analysis

04/2025

github.com/kanishkatks/Smart-EDAtool

- Built an agentic LLM-based system using LangGraph to automate EDA on CSV/JSON files, reducing manual effort by 80%.
- Deployed via AWS to deliver structured summaries, visualizations, and reports, with modular agents designed for future AI-driven automation.

AnomGuard – Credit Card Fraud Detection

03/2025 Amsterdam

github.com/MohsseniMahdi/anomguard

- Led a team to develop and deploy a credit card fraud detection system using supervised learning, achieving a 92% recall rate.
- Designed and implemented a full ML pipeline, from data preprocessing to model deployment, with cloud integration and a frontend for sandbox fraud detection.

Kanbot: RAG-Powered Chatbot for Portfolio

03/2025 - 04/2025

github.com/kanishkatks/kanbot

- Developed a conversational assistant using Retrieval-Augmented Generation to answer portfolio-related queries with content sourced from CV, GitHub, and website.
- Combined LangChain for retrieval logic and Hugging Face inference APIs to deliver relevant, context-aware responses.

EXPERIENCE

PhD Researcher

Netherlands Institute for Neuroscience, KNAW, Amsterdam

07/2017 - 11/2023 Amsterdam, Netherlands

- Discovered two previously unidentified brain regions involved in spatial attention, mapping their network architecture in primates.
- Investigated multitasking limits by quantifying information bottlenecks (~35ms) through high-resolution temporal analysis.
- Led analysis of large-scale time-series electrophysiology and fMRI datasets using Python and MATLAB for advanced statistical modeling.
- Contributed to two forthcoming high-impact publications and collaborated on the development of a visual prosthesis.

Research Assistant

Dept. of Systems Neuroscience, University of Göttingen, Göttingen

08/2016 - 07/2017 Göttingen, Germany

- Reduced study duration by ~66% by designing new behavioral experiment to understand visual development in the mice brain.
- Improved analysis throughput by 8x through a custom algorithm for Spike Sorting and pipeline optimization.
- Presented research at two national conferences, boosting lab visibility and fostering international collaboration.
- Supervised and mentored two bachelor's theses, supporting junior researchers and reinforcing lab capacity.

SKILLS

Python, SQL, R, MATLAB, SPSS

Tableau, Power BI, SparkSQL

Scikit-learn, TensorFlow, Keras, PyTorch

Google Cloud Platform, AWS, Hadoop

Airflow, MLFlow, Prefect, Hadoop, Kubernetes

Git, Docker, Streamlit, FastAPI

CERTIFICATIONS

Google Business Intelligence Certificate
Coursera

IBM AI Engineering Certificate
Coursera

Google Data Analytics Professional Certificate
Coursera

EDUCATION

Data Science and AI Bootcamp

Le Wagon Amsterdam

PhD in Neuroscience

Vrije Universiteit Amsterdam, NIN, Netherlands

MSc in Neuroscience

International Max Planck Research School, Univeristy of Göttingen, Germany

AWARDS

- **International Excellence Scholarship- NEURASMUS 2014**
- **Indian Academy of Sciences Summer Fellowship 2013**
- **Best Human Practices Award at iGEM-2013**

LANGUAGES

English Native

Hindi Native

Dutch Advanced