

# Koomi Toussaint AMOUSSOUVI

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## About me

Passionate AI enthusiast and data scientist, currently a Google DeepMind Scholar in the AI for Science program at AIMS South Africa. I have a solid foundation in AI, statistics, coding and a strong drive to innovate. I am eager to bring these skills to impactful, real-world applications in Industry.


## Education

- Sep 2024 – Present  **MSc. AI for Science**, African Institute of Mathematical Sciences (AIMS–South Africa).
- Oct 2021 – Feb 2024  **MSc. Statistics**, University of Abomey-Calavi, Benin  
Thesis title: *Assessing the potential seasonality of COVID-19 dynamics in Africa: a mathematical modeling study.*
- Oct 2017 – May 2021  **BSc. Applied Statistics**, University of Abomey-Calavi, Benin.  
Thesis title: *Determinants of monetary and non-monetary poverty in the Atacora department of Benin.*

## Work Experience

- Sep 2022 – Oct 2022  **Assistant Data Analyst**, Department of Agricultural Statistics (DSA), Cotonou-Benin.
  - Contributed to auditing and cleaning databases for Benin's agricultural sectors, merging and preparing 2021–2022 data in Excel and SPSS, and handling outliers and missing values.
  - Contributed to the development of a performance matrix for plant sectors by calculating annual growth rates and compiling projections to support strategic planning.
- Oct 2020 - Jan 2021  **Internship**, Department of Demographic Studies, National Institute of Statistics and Demography (INStaD), Cotonou - Benin.
  - Contributed to data entry and processing for the Survey on Migration in Benin (EMB2) using CPro and Excel.

## Projects

- Oct 2024  Recommendation System on MovieLens Dataset, AIMS–South Africa.  
**Repository:** [https://github.com/koomited/recommendation\\_system](https://github.com/koomited/recommendation_system).  
**Report:** [https://drive.google.com/file/d/1pscvh85kVjZvFR4U0\\_bmvzNGy\\_7Qf0np/view?usp=sharing](https://drive.google.com/file/d/1pscvh85kVjZvFR4U0_bmvzNGy_7Qf0np/view?usp=sharing).  
**Deployed app:** <https://movielens-recommender-system.streamlit.app/>.  
**Supervisor:** Dr. Ulrich Paquet, DeepMind Research Scientist and Director of AIMS South Africa.

## Skills

Coding	PHP, Python, SQL
Databases	MySQL, PostgreSQL, SQLite
Web Dev	HTML, CSS, JavaScript, Laravel, VueJs
DevOps	Docker, Git
Languages	Proficient in English and French (spoken and written)

## Awards and Achievements

Sep 2024 - Jul 2025	<b>Google DeepMind Scholarship</b> , African Institute of Mathematical Sciences (AIMS–South Africa) .
Nov 2021 - Oct 2023	<b>Scholarship Award for Masters Study</b> , European and Developing Countries Clinical Trials Partnership (EDCTP 2) Grant.
Dec 2019	<b>Honor Roll &amp; Department Prize</b> , Outstanding Student Performance, ENEAM, Benin.

## Certifications

Jul 2023 - Aug 2023	<b>Interactive Track and Deep Learning Project</b> , Neuromatch Academy.
Apr 2023 - May 2023	<b>Applied Data Science Lab</b> , WorldQuant University.
Oct 2022 - Apr 2023	<b>Advanced Statistical Methods in Epidemiology</b> , Awarded by London School of Hygiene & Tropical Medicine   LSHTM.

## Volunteering

Nov 2021 - Jan 2022	<b>Research assistant for BSc thesis</b> , Determinants of non-performing loans (NPLs) at UBA bank in Benin.
Fev 2021 - Apr 2021	<b>Research assistant for BSc thesis</b> , Influence of access to safe drinking water on the prevalence of diarrheal diseases among children under five in Benin.

## Referees

**Prof Claire David**  
AIMS–South Africa,  
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**Prof Ulrich Paquet**  
AIMS–South Africa,  
✉ [ulrich@aims.ac.za](mailto:ulrich@aims.ac.za)