

# Masindi Managa



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## PERSONAL PROFILE

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Second-year Data Science student at Eduvos-Pretoria, actively expanding her expertise across diverse domains. She brings practical experience in data preparation, exploratory analysis, and predictive modeling, with a proven ability to craft data-driven solutions through feature engineering and machine learning techniques. Proficient in Python, SQL, and visualization tools, she excels at identifying patterns in data to drive strategic decision-making. An ALX AI Career Essentials graduate, she is currently advancing her skills through SheCodes.

## EDUCATIONAL QUALIFICATION

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### Bachelor of Science in IT (Data Science)

Eduvos Pretoria, South Africa.

2023-In progress

#### Programming and Computational Skills:

- Introduction to Programming
- Procedural Programming (C++)
- Scientific Computing with Python
- Data Structures and Algorithms in Python

#### Data and Database Management:

- Database Systems
- IT Project Management

#### Machine Learning and Advanced Analytics:

- Machine Learning Algorithms
- Statistics and Probability in Python

#### Network and Security:

- Computer Network and Security
- Network Security

#### Web and Server Management:

- Web Server Management

#### Mathematics and Analytical skills:

- Calculus

- Linear Algebra

Information and Communication:

- Introduction to Information Skills
- Advanced Information and computer skills
- Technical Writing and Communication
- Business English

Human-Centered Design:

- Human Computer Interaction

**National Senior Certificate**

Emmanuel Christian School, Limpopo, Louis Trichardt, South Africa.

Jan 2022- Dec 2022

Subjects:

- Afrikaans FAL
- English HL
- Geography
- Life Orientation
- Life Sciences
- Mathematics
- Physical Sciences

**EXPERIENCE**

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Data Science Intern

Cognifyz Technologies – Internship (Remote)

Nov 2024-Dec 2024

Key Responsibilities & Achievements:

- Data Preparation:  
Cleaned and processed datasets with 9000+ entries, handled missing values, and encoded categorical variables.
- Feature Engineering:  
Extracted new features, including text-based attributes and binary indicators, to enhance predictive modeling.
- Exploratory Data Analysis (EDA):  
Performed in-depth price range analysis, uncovering trends that correlate pricing with customer ratings. Delivered insights that informed strategic pricing recommendations. Analyzed cuisine types to determine popularity and their correlation with higher ratings.
- Predictive Modeling:  
Built and evaluated Linear Regression, Decision Tree, and Random Forest models.

- Achieved the best performance with Random Forest (ranked highest in accuracy metrics).
- Customer Insights:
  - Leveraged data to identify the most popular cuisines based on votes and ratings, providing actionable insights for strategic decision-making.

## CERTIFICATIONS AND TRAINING

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### Data Science & AI Certifications:

- British Airways- Data Science Job Simulation (Forage, 2024)
- ALX AI Career Essentials (2024)

### Programming & Web Development:

- SheCodes Certificates: Coding Basics, Web Development, Responsive Web Development(2024)

## HONOURS AND AWARDS

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|------|---|
|      | [Bachelor of Science in Information Technology (Data Science)]                |
| 2023 | Academic excellence award Block 1 top achiever Eduvos, Pretoria, South Africa |
| 2023 | Academic excellence award Block 3 top achiever Eduvos, Pretoria, South Africa |
| 2023 | Academic excellence award Block 4 top achiever Eduvos, Pretoria, South Africa |
| 2023 | Microsoft Word Introductory (MyLabIT)   |
| 2023 | Microsoft Word Advanced (MyLabIT)   |
| 2023 | Microsoft Excel 2019 Introductory (MyLabIT)                                   |

## Portfolio/ Link

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LinkedIn profile: [www.linkedin.com/in/masindi-managa-775557263](https://www.linkedin.com/in/masindi-managa-775557263)

GitHub profile: <https://github.com/MasindiManaga>

## LANGUAGES

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- English & Tshivenda (native)
- Afrikaans (elementary proficiency)
- Setswana, Xhosa, Zulu (Intermediate)

## SKILLS

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- Programming: Python(Numpy, Pandas, Scikit-learn), JavaScript, SQL
- Data Visualization: Matplotlib, Seaborn
- Tools: Jupyter Notebook, VS Code, LucidChart

## EXTRAMURAL ACTIVITIES

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- Drama Club
- Writing
- Netball