# Renad Rafat Yassin

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## SUMMARY

I'm a Computer Science graduate with practical experience in data science, machine learning, and deep learning. I've worked on real projects like personality analysis, computer vision, and sign language classification. I enjoy finding patterns in data, building smart models, and turning ideas into useful applications. I'm confident using tools like Python, SQL, and TensorFlow, and I'm always excited to learn more and solve real problems with AI.

## EXPERIENCE

**Cooperative Training, Air Operations,** *Saudi Arabian Airlines*    07/2023 – 08/2023   Saudi Arabia
Conducted data analysis and created dashboards for performance and safety insights.Supported flight scheduling and resource planning.Collaborated with teams to enhance operational efficiency.

## EDUCATION

**Tuwaiq Academy,** *Bootcamps Building and developing artificial intelligence models*    03/2025 – 05/2025   Riyadh, Saudi Arabia
Attended intensive bootcamps focused on building and developing artificial intelligence models, including hands-on projects in data analysis, machine learning, and deep learning.

**Umm Al-Qura University,** *Bachelor's Degree in Computer Science*    06/2024   Saudi Arabia
**GPA: 3.80 / 4 – First Class Honors.** Hands-on experience in Data Analysis, Machine Learning, and Deep Learning using Python, SQL, and Excel through academic projects focused on real-world data and model development.

## LANGUAGES

**Arabic** — Native  •  **English** — Fluent

## PROJECTS

**Big Five Personality Traits Analysis**
Conducted exploratory data analysis (EDA) on OCEAN-based personality survey responses. Grouped and averaged results to generate individual scores, applied clustering to identify personality patterns, and used PCA for data visualization. Focused on feature extraction, trend analysis, and interpretation.

**Color-Matching Outfit Recommendation System for Colorblind Users.**
Built an AI-powered system to recommend visually matching clothing items based on color theory.
- Developed a **Variational Autoencoder (VAE)** to learn color combinations in the latent space.
- Trained model using a custom fashion dataset and evaluated reconstruction quality.
- Built an **interactive Streamlit web app** to allow users to explore outfit suggestions easily.
- Aimed to improve user experience for individuals with color blindness through smart outfit suggestions.

**Graduation Project "Sign Listener Application"**
Developed an Al-based application to review Quranic sign recitations.
- Backend: Video classification system using and LSTM model for Arabic (Quran) sign language.
- Frontend: Developed mobile application using Flutter.

## CERTIFICATIONS & COURSES

- Introduction to Artificial Intelligence Course | Kaust Academy | January 2025,
- Supervised Machine Learning: Regression. | IBM | December 2024,
- Data Analysis for Machine Learning | IBM | December 2024,
- Data Collection and Processing with Python | University of Michigan | November 2024.

## TECHNICAL SKILLS

Python (Pandas, NumPy, TensorFlow, Scikit-learn)  •  SQL, MySQL  •

Data analysis and visualization (Pandas, Matplotlib, Seaborn, Plotly, Excel)  •

Machine Learning and Deep Learning (CNNs, L.STM)  •  Feature engineering, model evaluation, hyperparameter tuning  •

Computer vision (OpenCV, YOLO, image and video processing)  •

Streamlit, Git & GitHub, Jupyter Notebook, Google Colab, VS Code  •

Microsoft Excel (Data Analysis, Pivot Tables, Dashboard Reporting)  •  Object-Oriented Programming (OOP)

## SOFT SKILLS

Analytical Thinking  •  Attention to Detail  •  Problem-Solving  •  Critical Thinking  •  Communication  •  Data Storytelling  •
Time Management