

# Jawaher Grayaa

Telecommunications Engineer

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Mahdia, Tunisia

## Experience

- **Software Engineering Intern — Wind Consulting** February 2025 — August 2025  
Mahdia, Tunisia
- Built an intelligent invoice-parsing platform combining OCR, NER, and document-understanding models for automated data extraction.
  - Developed the full ML pipeline including dataset generation, annotation export, and fine-tuning of EasyOCR, BERT, DONUT, and LayoutXLM.
  - Implemented a dynamic Angular annotation interface with bounding boxes, text correction, and structured-data editing.
  - Integrated models through REST APIs using Django, Celery/Redis, and MinIO.
    - **Keywords:** Angular, Django, EasyOCR, Transformers DONUT, LayoutXLM, Celery, MinIO
- **Software Engineering Intern — Welyne Software Engineering** June 2024 — August 2024  
Tunis, Tunisia
- Developed an AI-powered feature for human detection and contouring using React.js and BodyPix.js.
  - Integrated OpenCV.js to enhance image processing in diverse environments.
    - **Keywords:** React.js, BodyPix.js, OpenCV.js, HTML, CSS

## Education

- **Communications and Networks Engineering Degree** 2022 — 2025  
*National Engineering School of Gabes — Gabes*
- **Preparatory Cycle: Physics — Chemistry** 2020 — 2022  
*Preparatory Institute for Engineering Studies — Monastir*

## Projects

- Simulation of Satellite Orbits and Coverage** May 2024
- Developed Python-based simulations for satellite trajectories and coverage analysis.
  - Produced visual insights using Matplotlib and Plotly.
    - **Keywords:** Python, NumPy, Matplotlib, Plotly
- Auction Web Application** April 2024
- Built a full-stack auction platform using React.js and Node.js.
  - Secured authentication with JWT and implemented real-time updates via WebSockets.
    - **Keywords:** React.js, Node.js, JWT, WebSockets

## Skills

- **Web Development:** Angular, Django, REST APIs, TypeScript
- **Database Design & Management:** PostgreSQL, MySQL, JPA/Hibernate
- **AI & Model Training:** Data Processing, Document Understanding, OCR, Transformers, TensorFlow, Pytorch
- **Model Deployment & MLOps:** Docker, Redis, MinIO, Celery
- **Programming:** Python, Java, JavaScript
- **Languages** English (Proficient), French (Bilingual)