

# Nour El Houda Ghidhaoui

Computer Engineer

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## Summary

**Big Data & BI Engineer** with versatile skills. Recently graduated, I master the entire value chain: from **ETL (Talend)** to **data visualization (Power BI)**. Technical expertise in **React.js, Node.js, ASP.NET** and **SQL/NoSQL databases**. My profile combines **Artificial Intelligence** with a passion for data, ready to deliver impactful analytical solutions to your team.

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## Experience

### EY Tunisia – Data Analysis and BI Engineer Intern

End-of-Studies Project | 2024-2025

- Designed and developed an **ETL pipeline** using **SQL Server, Python, and SSIS** for multi-source data integration.
- Implemented an **interactive Power BI dashboard** for real-time monitoring and forecasting of resource availability, skills, and assignments.
- Integrated an **artificial intelligence (Machine Learning) module** for predicting key indicators.
- Developed a **conversational chatbot** to query the database and facilitate access to information.

### PwC Technology Acceleration Center Tunisia – Data Analysis and BI Engineer Intern

End-of-Year Project | 2023-2024

- Conducted **data analysis** on the usage of AI tools using **Power BI**.
- Designed and implemented interactive dashboards to visualize usage metrics.

### TAC-TIC – Software Developer Intern

End-of-Year Project | 2022-2023

- Developed a **custom internal management tool** using **Laravel** in response to a client's request. Contributed to **backend logic, relational database integration, and interface components** to support operational tracking and data visibility.
  - The solution was tailored to the client's workflow and deployed for internal use, reinforcing my skills in **data modeling, process structuring, and insight-ready system design**.
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## Education

### Private International Polytechnic School of Tunis (Polytech INTL) – 2022-2025

Engineering Degree in Computer Science, Networks and Multimedia (CNM) | Big Data & Business Intelligence

### Private International Polytechnic School of Tunis (Polytech INTL) – 2020-2022

Integrated Preparatory Cycle in Computer Science

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# Skills

**Development:** React.js, Node.js, ASP.NET, TypeScript, JavaScript, C#, Java, Laravel, HTML5, CSS3

**Databases:** MySQL, Microsoft SQL Server, HBase, MongoDB, Neo4j, Redis

**Big Data & ETL:** Talend, Hadoop, HDFS, Kafka, Flume, Sqoop, Power BI

**Artificial Intelligence:** Machine Learning, Deep Learning, CNN, RNN, NLP, regression, classification

**Tools:** Visual Studio 2022, Eclipse JEE, SSIS, SSMS

**Methodologies:** Agile SCRUM

**Languages:** Arabic (Native), French (Fluent), English (Fluent)

**Certifications:** DELF B2, Aptis B2, IT Specialist - Software Development, Introduction to Programming using Python, Java, MOS Word, Excel 2016

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# Projects

## **Power BI Dashboard with ML Prediction | 2024-2025**

- Developed an interactive Power BI dashboard for resource monitoring with integration of a Machine Learning module for predicting key indicators.

## **ETL Pipeline with SQL Server, Python, and SSIS | 2024-2025**

- Designed and implemented a complete ETL pipeline for multi-source data integration with automated transformation processes.

## **Migration to 4 NoSQL Instances | 2024-2025**

- Migrated a relational database from an e-commerce site to **HBase, MongoDB, Neo4j, and Redis** for optimized data management.

## **Talend Project - Database Migration | 2024-2025**

- Migrated a database from **Access to MySQL and Microsoft SQL Server** using **Talend** for ETL automation.

## **Power BI Visualization of a Cube under MSS | 2024-2025**

- Resolved client queries in the form of charts in **Power BI** using **Visual Studio 2022, Analysis Services, and SSMS**.

## **Installation and Testing of Kafka, Flume, and Sqoop | 2024-2025**

- Installed and tested the operation of **Kafka, Flume, and Sqoop** tools for real-time data integration.

## **Poker Planning Web Application | 2024-2025**

- Developed a card selection application for task estimation using **React.js, TypeScript, and JSX**, deployed in production.

## **E-commerce Web Application for Cosmetic Products | 2024-2025**

- Implemented an e-commerce web application using **JEE and Eclipse JEE**.

## **Full-Stack Responsive Website for Movie Management | 2024-2025**

- Created a full-stack responsive website using **React.js, Node.js, MySQL, Xampp, HTML5, CSS3, and JavaScript**.

## **Web Forum Development | 2024-2025**

- Created a classic web forum using **C#, ASP.NET, and Visual Studio**.

## **Desktop Application for School Management | 2024-2025**

- Developed a desktop application for school management using **Java Swing and MySQL**.