

# Nour Thraya

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## Professional Summary

IT Engineer specialized in Business Intelligence and Data Engineering, combining software development skills with expertise in data analysis, visualization, and predictive modeling. Currently developing an AI-driven graduation project aimed at optimizing financial performance using Business Intelligence and Machine Learning. Expected graduation: November 2025.

## Education

### Engineering Degree in Information Technology – Specialization in Business Intelligence

*Sep 2020 – Nov 2025 (expected)*

ESPRIT, Tunis, Tunisia

- Final-year project combining Business Intelligence, Machine Learning, and Web Development for financial performance optimization.
- Key courses: Data Mining, Big Data, Decision Analysis, Artificial Intelligence, Deep Learning, Web Development, Software Architecture, DevOps.

## Professional Experience

### Final Year Internship – Graduation Project

*Feb 2025 – Sept 2025*

Forvis Mazars, Tunis, Tunisia

- Designed and implemented a billing and debt collection web platform using Angular, Node.js, and MariaDB.
- Automated payment reminders and email alerts to enhance collection efficiency.
- Developed interactive Power BI dashboards to monitor overdue invoices and analyze recovery KPIs.
- Conducted a benchmark of Machine Learning models (XGBoost, k-NN, Random Forest) to predict invoice and client payment risks.
- Selected final models based on business metrics prioritizing recall, achieving up to 82% detection accuracy on high-risk cases.

### Business Intelligence Intern

*Jun 2024 – Aug 2024*

ODDO BHF, Tunis, Tunisia

- Cleaned, consolidated, and analyzed multi-source data using Power BI and Excel.
- Built dynamic KPI dashboards and delivered insights to management for agile decision-making.

### DevOps Intern

*Mar 2023 – Apr 2023*

VERMEG, Tunis, Tunisia

- Built CI/CD pipelines with GitLab CI, Docker, Maven, and Jenkins to automate deployments and reduce manual errors.

### Consulting Intern

*Jul 2022 – Aug 2022*

Ernst & Young (EY), Tunis, Tunisia

- Supported consulting teams on strategic projects through analytical research and reporting.
- Gained insight into data-driven decision-making in a corporate environment.

## Academic Projects

### Anomaly Detection with Deep Learning

*Oct 2024*

- Implemented anomaly detection models using Python, TensorFlow, and PyTorch.
- Evaluated model performance through ROC curves and F1-score on the UCSD dataset.

### HR Analytics and Business Intelligence Dashboard

*Jan 2024 – Oct 2024*

- Developed integrated Power BI dashboards connected to an Angular web interface.
- Performed data cleaning, transformation, and visualization to support HR decision-making.
- Integrated predictive models for employee performance trends.

## Technical Skills

- **Programming:** Python, Java, JavaScript/TypeScript, SQL, R.
- **Data & BI:** Power BI, ETL, Machine Learning, Data Storytelling, SSIS, SSAS, Talend, MSSQL
- **Web Development:** Angular, Node.js, Spring Boot, HTML, CSS
- **DevOps:** Docker, Git, Jenkins, CI/CD pipelines
- **Databases:** MySQL, Oracle

## Languages

French: C1 – Advanced (spoken and written)  
Arabic: Native (C2 – fluent spoken and written)  
English: C1 – Advanced (spoken and written)