

Tom GORTANA

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PROFESSIONAL EXPERIENCE

- **Research Intern, Center for Modeling Biological Systems and Data Analysis (CMBSDA), Univ. Victor Babes, Timisoara, Romania** June–August 2025
Thermal optimization of surgical guides for dental implants. Bone experiments for measuring thermal fields. Python scripting for thermographic analysis and modeling. 📄 Internship report PDF
- **Technical Internship, Monsieur Txokola Chocolate Factory, France** April–May 2024
Selection and transformation of cocoa beans, nutritional value recalculation via NUTREE.
- **Intern, Microbiology Lab, University of West Attica, Athens, Greece** May–July 2023
Microbiological techniques for microorganism enumeration/detection, testing antimicrobial activity of natural extracts.

PROJECTS

- **Reproducibility Hackathon (Université Paris-Saclay)** September 2025 – present
Participation in an interdisciplinary hackathon on genomics reproducibility. Nextflow pipelines using Docker images: SRA Toolkit (fastq-dump, fasterq-dump), Bowtie, Samtools, FeatureCount, DESeq2. Developed skills in reproducibility, scientific programming, collaborative work (Git, Nextflow, Docker, workflow automation).
- **Machine Learning Projects** September 2025
Design and implementation of supervised models (regression and classification) using scikit-learn.

EDUCATION

- **AgroParisTech (Université Paris-Saclay), Engineering – IODAA Major (Decision and Data Science)** 2023–present
IODAA: Engineering and Optimization of Data for Decision Support and Learning (focus on data science, optimization, AI, decision-making)
Double degree, AMI2B Master's, Vice-President, Welcome and Integration Association (WEI team)
Erasmus Semester Italy: Food and Health, Università degli studi di Padova, Padua (Feb–June 2025) — School of Agronomy and Veterinary Medicine
- **BUT Biological Engineering, Université Claude Bernard Lyon 1** 2021–2023
Food Science and Biotechnology (SAB), Elite Athlete, FBBP01 U19 National
Erasmus Semester Greece: Food Sciences and Technologies, University of West Attica, Athens (Jan–May 2023) — food science specialization

SKILLS

Languages	French (native), English (B2), Italian (B1)
Programming	Python, R, SQL, PostgreSQL, pgAdmin, Git, Jupyter, Office, Docker (fastq-dump, bowtie, samtools, featurecount, DESeq2), Nextflow
Image Analysis	OpenCV, ImageJ
ML/DL	KNN, SVM, RF, XGBoost, logreg, PCA, CNN, MLP, TensorFlow, Keras, PyTorch, scikit-learn, GridSearchCV, Optuna, SMOTE, weights
Data	Feature selection, classification, regression, clustering, data mining, wrangling, pipeline automation, data visualization (pairplot, heatmap, interactive), evaluation: ROC-AUC, recall, precision, F1, ROC curves
Other	📄 AI Certificate, Columbia University