YAHYA BOUCHAK

AI & Big Data Developer

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 ⓞ github.com/Bouchask — 🌐 Portfolio

PROFESSIONAL SUMMARY

Driven by a mission to bridge the gap between complex data and real-world solutions, I thrive on transforming challenging problems into elegant and intelligent systems. My passion lies not just in coding, but in architecting AI-powered tools that deliver tangible impact and measurable results.

TECHNICAL SKILLS

Programming Languages	C, Java, Python, JavaScript, PHP
Web Development	HTML5, CSS3, React, Node.js, Laravel, Tailwind CSS, Flask
AI & Data Science	TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Streamlit, Plotly, NLP
LLM (Large Language Models)	GPT-3, BERT, T5
Pre-trained Models	GPT-2, RoBERTa, Google Models, YOLO
Computer Vision	OpenCV, MediaPipe, InsightFace, DeepFace, HDBSCAN
Big Data & Engineering	Spark, Flume, Hadoop, Hive, Pig, Kafka
Databases	MySQL, PostgreSQL, NoSQL, SQLite
Tools & APIs	Git, Docker, YouTube Data API, Google API, UML, Merise

PROJECTS

- **AI-Powered Attendance Tracking Portal** ⓞ Repository
  Engineered an AI-powered portal for automated attendance tracking, using YOLOv8 for detection and ArcFace for high-accuracy recognition. The system streamlines administrative tasks and improves record-keeping integrity.
  Technologies: Python, Flask, YOLOv8, ArcFace, FAISS

- **NASDAQ 100 Stock Price Prediction** ⓞ Repository
  Developed a time-series forecasting model for the NASDAQ 100 index, leveraging TensorFlow to predict market movements. Built a tool for back-testing and validating potential trading strategies based on historical data patterns.
  Technologies: Python, TensorFlow, Streamlit, yfinance

- **Smart Finger & Emotion Detection** ⓞ Repository
  Created a real-time human-computer interaction system using MediaPipe and DeepFace. The application interprets hand gestures and facial expressions, opening possibilities for intuitive, non-verbal software control.
  Technologies: Python, DeepFace, MediaPipe, OpenCV

- **NLP Sentiment Analysis** ⓞ Repository
  Built a sentiment analysis tool using a fine-tuned DistilRoBERTa model deployed via Streamlit. The application provides instant emotional tone analysis of text for user feedback and social media monitoring.
  Technologies: Python, DistilRoBERTa, Streamlit

- **Face Detection & Unsupervised Clustering** [Repository]
  Implemented a pipeline for face clustering in media. By combining InsightFace for feature extraction and HDBSCAN for density-based clustering, this project automatically groups individuals without prior labeling.
  Technologies: *Python, OpenCV, InsightFace, HDBSCAN*

PROFESSIONAL EXPERIENCE

Full Stack Developer Intern **Tech Solutions Inc.**
Summer 2023

- Developed and maintained web applications using Laravel and React.

- Collaborated with the AI team to integrate a recommendation engine.

- Participated in the full software development lifecycle, from planning to deployment.

EDUCATION

- **Master's in Information Systems & Artificial Intelligence** 2025 - Present
  Faculté Polydisciplinaire Khouribga (FPK)
- **Bachelor's in Information Systems Artificial Intelligence** 2024 - 2025
  Faculté Polydisciplinaire Khouribga (FPK)
- **Higher Technician's Certificate (BTS) in Information Systems Development** 2022 - 2024
  Lycée Technique Qualifiant