THIRUMURUGAN KUMAR

Candidacy – Internship in Data Science and Analytics
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PROFILE

Master's student in Computer Science – Data Science and Analytics (2024–2025) at EPITA.
Actively seeking a 6-month end-of-studies internship starting in September 2025.
Domain: Data Science | Data Analyst

EDUCATION

Master's in Data Science and Analytics 2024 - 2025
EPITA, Le Kremlin-Bicêtre, France

Bachelor of Technology – Information Technology 2020 - 2024
St. Joseph's College of Engineering, India

TECHNICAL SKILLS

- **Programming: Python, Java**
- **Machine Learning / Deep Learning: Hugging face, PyTorch**
- **Data Visualization: Dataiku, Tableau, Orange, Power BI**
- **Databases: SQL, MongoDB, PostgreSQL**
- **Workflow Management: Airflow, Grafana**

OTHER SKILLS: Microsoft Excel, Canva, Figma, Blender

UNIVERSITY PROJECTS

- **Fake News Detection Using NLP, Deep Learning & LLMs** **2025**
  Built and deployed a real-time fake news detection system using NLP, deep learning (LSTM, GRU, CNN), and LLMs. Developed a Streamlit frontend with FastAPI backend, integrated PostgreSQL for storage and Grafana for monitoring. Implemented user authentication, feedback tracking, and containerized deployment via Docker on AWS/Streamlit Cloud.

- **Employee Performance Prediction Using Workplace Data** **2025**
  This project aimed to predict employee attrition and performance using machine learning models . TensorFlow and Scikit-learn were used for model training. The solution was deployed with FastAPI, and an interactive dashboard was created using Streamlit. To ensure scalability and monitoring, Airflow was used for automation and Grafana for real-time visualization.

- **Digital Footprints of Active Drug Traffickers on the Darknet** **2022**
  This project focused on digital forensics and cybersecurity to trace illegal drug trafficking activities on the darknet. Using Python, darknet crawlers, and open-source investigation tools, the project extracted user activity from hidden services. The data was used to construct detailed network graphs showing the connections between individuals and criminal organizations.

- **Mini Project: Tourism Application in Java** **2023**
  This project involved developing a mobile-based tourism guide application using Java. The app was designed to assist travelers with planning their trips, locating nearby attractions, booking accommodations, and navigating new places. The project emphasized a combination of backend data handling and a user-friendly interface for a smooth travel experience.

- **Traffic Monitoring and Analysis System using YOLOv8** **2024**
  In this project, a real-time traffic monitoring system was built using YOLOv8. The system could detect multiple road elements including vehicles, pedestrians, and traffic signs from live camera feeds. It analyzed traffic flow to identify violations such as red-light jumping and illegal parking. The system provided alerts to traffic authorities and offered visual data for optimizing city traffic.

LANGUAGES

- English: Fluent (B2)
- French: Beginner (A2)
- Tamil: Native
- Hindi: Basic (A1)

INTERESTS

- Football
- Photography
- Video Editing
- Chess