Felipe Bononi Bello 🔗

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Summary

Engineer with an education in Aerospace and Robotics, specializing in machine learning and artificial intelligence. Developed expertise in computer vision and retrieval-augmented generation through practical projects and competitions.

Experience

Machine Learning Engineer - Team Epoch   Aug. 2024 – Present
- Competed in multiple machine learning challenges as part of TU Delft's AI student team.
- Won first place in a malaria detection competition on blood microscopy images.

Education

Delft University of Technology - MSc Robotics Engineering   Sept. 2023 – Present
GPA: 7.6/10   *Delft, the Netherlands*

Delft University of Technology - BSc Aerospace Engineering   Sept. 2020 – July 2023
GPA: 7.5/10   *Delft, the Netherlands*

Shanghai Jiao Tong University - Chinese Language School   Sept. 2019 – July 2020
GPA: 8.9/10   *Shanghai, China*

Projects

Retrieval Augmented Generation   Dec. 2024 – Present
Developed a pipeline to retrieve text chunks from PDFs and answer queries using DeepSeek API.

Computer Vision Projects   Oct. 2023 – Jun. 2024
- Steered a Bebop 2 drone with a CNN trained on depth images.
- Created an electrical circuit digitization tool for converting paper sketches to digital format.
- Built an object and event detection system for analyzing football games.

Specialized Skills

Programming: Python (Advanced), C++ (Intermediate)

Languages: Dutch (Native), English (Fluent), Portuguese (Fluent), Spanish (Advanced)

Awards & Honors

Confucius Institute Scholarship
Awarded to study Chinese language for one academic year at Shanghai Jiao Tong University.

Hermés Thesis Prize
Recognized for the best thesis at Christelijk Gymnasium Sorghvliet, developing an object-removing robot.

Other Interests

Sports: Football, Chess, Padel

Hobbies: Reading, Podcasts, Personal Programming Projects