



Albin Franzén

Candidate M.Sc. in Engineering Mathematics

Civilingenör i Teknisk Matematik at Lund University, LTH
with degree specialization in Machine Learning & Image Analysis

-  albinfransen.se
-  albinfransen@hotmail.com
-  +46705254819

Profile

Final-year Master's student in Engineering Mathematics at Lund University (LTH) with experience in traditional ML, image analysis, NLP, and signal processing. Passionate about applying mathematical methods to real-world problems and building practical AI solutions. Experienced tennis coach and umpire with strong leadership and teamwork skills.

Skills

-  **Languages:** Python, Java, SQL, Rust, C++, Javascript
-  **Libraries:** PyTorch, scikit-learn, OpenCV, NumPy, Pandas
-  **Tools:** Git, Docker, Jupyter

Education

2021 – 2026	Lund University (LTH)	Lund
	Master in Engineering Mathematics (Civilingenör i Teknisk Matematik)	
2024 – 2025	University of California, Davis	Davis, near San Francisco
	Exchange year at Department of Computer Science	

Projects/Achievements

Indoor–Outdoor Campus Navigation System

- Pathfinding system for UC Davis to find optimal routes between indoor and outdoor locations
- Image processing and machine learning to automate analysis of floorplans and route prediction

2nd Place at Yale Quantum Computation Hackathon

- Designed quantum algorithm to optimize wildfire resource management
- Competed against other teams/top schools in Boston and was evaluated by quantum scientists

ML-Based Fraud Detection in Bank Account Openings

- Developed ML-pipeline in scikit-learn to detect fraudulent bank account openings
- Conducted EDA, preprocessing, feature engineering, model evaluation and hyperparameter tuning

Experience

Performance Tennis Coaching (Helsingborg and Lund, 2015-now)

- Provided coaching to athletes competing at the national and international level
- Built reputation working 10 years at competitive section in two of the top clubs in the country

Professional Tennis Officiating and Tournament Director (ATP, WTA, SvTF, 2015-now)

- Line umpire at top-tier ATP events and chair umpire at professional tournaments.
- Lead tournament director for national-level events, coordinating staff, and hundreds of participants.

Squad leader for Mobile Air Defense System (Swedish Armed Forces, 2020-2021)

- Led a squad in anti-air defense operations, developing leadership and technical expertise