

Mukhammadali Sayfiddinov

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Education

- Visiting Student, EPFL** Aug 2024 – Current
- Interning in Computer Vision and Deep Learning.
- AI Summer School participant, Texas A&M @Qatar** May 2024 – Jun 2024
- Implemented Knowledge Distillation extracting theoretical foundations from the original paper.
- Bachelor of Computer Engineering, Polytechnic of Turin** Oct 2022 – Current
- GPA: 29.8/30 Expected Final Grade: 110/110
 - Provide CS support to QubiTo (Quantum Computing student team) simulating quantum circuits with Q#.
 - Member of Collegio Einaudi - a merit-based school requiring 70 hours/year extra load.

Experience

- Research Intern, LiGHT Lab, Yale & EPFL** Aug 2024 – Current
- Developed compact, high-precision DL model to be used by Doctors Without Borders.
 - Experimented with mobile DL architectures, achieving a 3x improvement in performance
 - Designed and built data engine supporting various parts of the larger project.
- Research Assistant, Fabris Lab, Polytechnic of Turin** Sep 2023 – Jul 2024
- Developed package AMAP with classical and deep learning tools to measure nanostar dimensions from images.
 - Cleaned, interpolated, and optimized Raman spectroscopy signals for material characterization.
- Math & SAT teacher - promoted - Head of Research & Development** Aug 2019 – Sep 2022
Sodiq Academy – Reference Letter
- Did 3-month internship and taught high school math at LSL, in my hometown.
 - Got invited to the capital to teach Advanced English for SAT. Created resources popular among students.
 - Guided (overall 180) high schoolers in critical thinking via scientific and philosophical text analysis.
 - Got promoted and led curriculum strategy, 15+ teachers' assessment, and integration of research.

Projects

- 🔗 **Antibiogo-IHZ** tool to assist in antimicrobial resistance testing for low-resource settings.
 - 🔗 **AMAP** package to automatically measure nanoparticle dimensions based on TEM images.
 - 🔗 **ML-Knowledge Distillation** implementation of knowledge transfer between deep learning models.
 - 🔗 **Argifts** data analysis on e-transactions to derive insights for business operations.
 - 🔗 **Uzum** recommendation system prototype for e-commerce platforms using collaborative filtering.
- Languages:** Python, C, SQL **Tools:** TensorFlow, PyTorch, Pandas, MATLAB, Git

Independent Learning

Course names include hyperlinks to certifications and proofs of completion

Deep Learning for Computer Vision	Stanford Online
Machine Learning	Stanford Online
Data Science	Kaggle
Applied Probability	MIT OpenCourseWare
Linear Algebra	MIT OpenCourseWare
Entrepreneurship	University of Pennsylvania
Intro to Quantum Computing	Google Quantum AI & QxQ

Beyond Work & Studies

- Educational Advisor** - Volunteer at StudentHelp for Central Asians transitioning to European universities
- Self-made philosopher** - Love reading thought-intensive books. Keep a blog for my thoughts.
- Sports enthusiast** - Gym, running, ping pong