

# UNIVERSITA' DEGLI STUDI DI GENOVA

AREA RICERCA, TRASFERIMENTO TECNOLOGICO E TERZA MISSIONE

SERVIZIO RICERCA

SETTORE RICERCA NAZIONALE

## IL RETTORE

- Visto il Decreto Rettorale n. 2397 del 06/06/2025, con il quale è stato indetto il concorso per titoli e colloquio, per il conferimento di n. 3 borse di ricerca post-lauream, di tipo starting della durata di 9 mesi, dell'importo di € 9.696,42 (novemilaseicentonovantasei/42) cadauna, eventualmente rinnovabili, per lo svolgimento di una ricerca sul tema "Progettazione di modelli di machine Learning su dispositivi embedded per applicazioni industriali" presso il DITEN dell'Università degli Studi di Genova;
- Visto il Decreto Rettorale n. 2817 del 07/07/2025 con il quale è stata costituita la Commissione giudicatrice per il conferimento della suddetta borsa di ricerca;
- Visto il verbale della Commissione giudicatrice del concorso in parola, riunitasi in data 07/07/2025;
- Constatata la regolarità della procedura seguita;

## DECRETA

### Art. 1

Sono approvati gli atti del concorso di cui in premessa e la seguente graduatoria di merito:

1. Dott. BELAL SABA	punti 89/100
2. Dott. ABDOLLAHI MOMAMMADHOSEIN	punti 87/100
3. Dott. ESKANDARI MAJDAR SHAHRZAD	punti 83/100
4. Dott. SAHOO RAHUL KUMAR	punti 75/100
5. Dott. AHMED YOUNIS AHMED MOSTAFA	punti 74/100

Gli altri candidati non raggiungono il punteggio minimo ai fini dell'idoneità alla fruizione della borsa.

Sotto condizione dell'accertamento dei requisiti di cui al bando, sono dichiarati vincitori del concorso in parola i Dott. Belal Saba, Abdollahi Momammadhosein e Eskandari Majdar Shahrzad.

Genova,

IL RETTORE

*(firmato digitalmente)*

# Mohammadhosein Abdollahi

## LINKS

### PROFILE

Results-driven Software Engineer with a strong foundation in help desk support, web development, and full-stack application delivery. Proven ability to build scalable solutions using PHP, WordPress, JavaScript, and Python. Experienced in consulting, plugin development, and translating business requirements into technical architecture. Adept at optimizing systems for performance and leading initiatives that enhance user and organizational efficiency.

### EMPLOYMENT HISTORY

Apr 2025 — Present	Web Application Developer, Widecons	Genoa
<ul style="list-style-type: none"><li>Developed a custom web application using WordPress, tailored to client requirements and UI/UX best practices.</li><li>Built and customized plugins using PHP and integrated dynamic features through Elementor.</li><li>Replicated core PHP business logic into scalable WordPress plugins, improving maintainability and CMS alignment.</li><li>Participated in business strategy discussions, offering technical consulting to align product decisions with scalable architecture.</li><li>Ensured performance, responsiveness, and cross-platform compatibility through rigorous testing and optimization.</li></ul>		
Oct 2020 — Aug 2023	Network & VoIP Specialist & Help Desk, VatanZarin Group	Tehran
<ul style="list-style-type: none"><li>Configured and optimized network and VoIP systems to ensure continuous and high-quality service for internal teams.</li><li>Provided real-time technical support and resolved over 95% of help desk tickets within SLA targets.</li><li>Conducted regular network security assessments and deployed protective solutions against potential threats.</li><li>Deployed a Virtual Desktop Infrastructure (VDI) serving 150 users, improving resource management and enabling remote access.</li><li>Led the implementation of a VoIP communication upgrade, enhancing internal and external connectivity across departments.</li></ul>		

### EDUCATION

Oct 2023 — Jan 2026	M.Sc. in Computer Science, University of Genova	Genoa
Jan 2018 — Jan 2022	B.Sc. in Computer Engineering, Islamic Azad University of Tehran	Tehran

### SKILLS

WordPress	VoIP Systems
PHP	Network Configuration
JavaScript	Troubleshooting
Plugins	Git
Python	Web Development
Java	Testing & Security
C++	Blockchain
C	Problem Solving

LANGUAGES	Italian -	English - Fluent
	Intermediate	
	Persian - Native	
PROJECTS	<b>- Vulnerabilities Scanner</b> (May 2024 - June 2024): Developed a security tool that identifies system vulnerabilities by analyzing the version data of exposed services.	
	<b>- Machine Learning - Random Forest Classifier</b> (April 2024 - May 2024): Optimized a Random Forest Regression using GridSearchCV to achieve high model accuracy through effective hyper-parameter tuning.	
	<b>- VDI Configuration</b> (August 2022 - November 2022): Configured a Virtual Desktop Infrastructure for 150 users, delivering enhanced remote productivity and system security.	
	<b>- Unige-Connect</b> (October 2024 - January 2025): Built a university collaboration platform using React and a Python-based API (Shell, PHP-SAML), following Scrum principles.	
	<b>- VoIP Implementation</b> (April 2021 - May 2021): Led the design and deployment of a VoIP communication system, streamlining digital voice services and operational efficiency.	
	<b>-Online Store (Java)</b> (January 2020 - March 2020): Created a role-based e-commerce platform with administrative, employee, and customer access layers.	

## About Me

I am a recently graduated robotics engineer with a deep-rooted passion for engineering and a keen interest in transitioning into junior project management or junior engineering roles. My academic background in project management is complemented by a certification in Career Essentials in Project Management, jointly offered by Microsoft and LinkedIn, equipping me with key insights into project management methodologies and best practices.

Throughout my studies at the University of Genoa, I have immersed myself in biomedical engineering and robotics, gaining both theoretical knowledge and practical skills that prepare me for real-world challenges. I am eager to apply my analytical abilities and collaborative spirit to either a junior project management or engineering role.

Additionally, I am open to internship opportunities, with the possibility to start any time from September 2024, and my participation would come with insurance coverage provided by the University of Genoa. I am dedicated to leveraging my skills to contribute effectively to a team and drive successful project outcomes.

## Work Experience

### ● Operation/Junior project Manager , Internship

Kasamee November2024-Current

- Utilizing software tools to streamline operations, contributing to the effective management and oversight of operational processes.
- Leading and training a team, enhancing staff coordination and performance in a high-paced environment.
- Participating in budget administration for specific business areas, ensuring cost-effective management and financial oversight.
- Developing and refining operational processes, improving efficiency across various organizational sectors.

### ● English teacher

British school ,Genova ,Italy,2023-current

- Developed and delivered English courses from A1 to B2 levels, including exam preparation for Trinity and Cambridge assessments. Designed course materials, managed classroom settings, and adapted teaching methods to meet diverse student needs.

### ● Intern at Shiraz medicine university

Shiraz Medicine University, Iran, May 2019 - Sep 2019

- Supported the maintenance and technical operations of hospital equipment.
- Enhanced skills in a high-pressure healthcare environment, contributing to effective problem resolution.

### ● Professor Assistant

Azad University of Kerman, Iran | Feb 2019 - Jan 2020

- Assisted in biomedical engineering courses and research, enhancing educational delivery and student engagement.
- Supported the professor in academic research, contributing to publications and presentations at conferences.

### ● Manager assistant

Yass Charity Foundation, Iran, May 2015 - 2020

- Coordinated events and managed logistics, advertisements, and sponsorships.
- Advertisement and Promotion: Executed advertising campaigns, managed social media, and designed marketing materials.
- Sponsorship Management: Identified and secured sponsors, maintained relationships, and coordinated sponsor participation.
- Guest Management: Managed guest lists, handled RSVPs, and ensured VIPs were appropriately invited and accommodated.
- Engaged in community service, enhancing organizational visibility and impact.

## Skills

- Software Development (python)
- Project Management (Microsoft 365, Asana, Scrum,primavera6)
- 3D Modelling (Proteus, SolidWorks)
- Python Programming
- Problem Solving
- Team Collaboration
- KPI
- HSE management

## Education

### Master of Robotics Engineering

University of Genova, Italy | July 2024

Thesis: Integration of 3D Holographic Data in Robot-Assisted Surgery

### Bachelor of Biomedical Engineering

Azad University of Kerman, Iran | 2020

## Language

English

Upper intermediate (B2)

Italian

Italian

Elementary (A2) Working progress

Persian

Bilingual or Proficient (C2)

## certificates

- Google IT Automation with Python Professional Certificate, Coursera
- Google Project Management Professional Certificate, Coursera
- Career Essentials in Project Management, Microsoft and LinkedIn

### Professional Affiliations

- 8th international neuroengineering school at Genova ,2022.
- Participant, BCI & Neurotechnology Spring School, 2024

# Certificates

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- Coursera, professional certificate Google It Automation with Python. Includes courses below:

using python to interact with the operating system by Google.

crash on python by Google.

Configuration management and the Cloud by Google.

Introduction to Git and GitHub.

Troubleshooting and Debugging Techniques by Google.

Automating Real-World Tasks with Python by Google.

- Coursera, professional certificate Google Project Management, includes courses below:

Foundations of Project Management by Google.

Project Initiation: Starting a Successful Project.

Project Planning: Putting It All Together.

Project Execution: Running the Project.

Agile Project Management.

Capstone: Applying Project Management in the Real World.

- LinkedIn, Problem-Solving Techniques , By: Chris Croft.
- LinkedIn, What Is Generative AI? , By: Pinar Seyhan Demirdag.
- LinkedIn, Leveraging Generative AI for Project Management, By: Ricardo Vargas.
- LinkedIn,Project Management Foundations: Small Projects,By: Bonnie Biafore.
- LinkedIn, Advanced Primavera P6,By: Seyi Kukoyi.
- LinkedIn, Mastering Project Management with Asana, By: Jean Kang.
- LinkedIn, Scrum: Basic By: Kelley O'Connell.
- LinkedIn, Scrum: Advanced, By: Kelley O'Connell.

- BCI & Neurotechnology Spring School 2024
- 8th international neuroengineering school at Genova ,2022.
- Competent in working with Sofa Framework Software.
- Competent in using Proteus.
- Competent in using solid work.
- Competent in using Office XP software (Access, Excel, Power Point, Word) since 2017

- Career Essentials in Project Management by Microsoft and LinkedIn including courses below:

Project Management Foundations

Project Management Foundations: Ethics

Project Management Foundations: Requirements

Project Management Foundations: Schedules

Project Management Foundations: Budgets

Project Management Foundations: Teams

Project Management Foundations: Communication

Project Management Foundations: Risk

Managing Project Stakeholders

Collaborating with Microsoft 365

Managing Projects with Microsoft 365

Optimizing Your Work with Microsoft 365



Saba Belal

Residence permit: | Date of birth: | Place of birth: | Nationality: |

Phone number: | Email address: | LinkedIn: |

| WhatsApp Messenger: |

Address: |

## ABOUT ME

Passionate about large-language models and their real-world impact. Built RAG pipelines to serve domain-specific Q&A over Python docs; fine-tuned transformers on custom corpora; optimized retrieval via FAISS. Hands-on with Hugging Face Transformers, iterative prompt engineering, and deploying NLP APIs in Dockerized microservices. Eager to contribute to cutting-edge LLM research.

## EDUCATION AND TRAINING

20/09/2023 – CURRENT GENOVA, Italy  
**MASTER OF COMPUTER SCIENCE** University of genova

01/10/2016 – 20/07/2020 Qom, Iran  
**B.S. IN COMPUTER ENGINEERING** University of Qom

### Website

10/10/2011 – 10/07/2014  
**DIPLOMA IN MATHEMATICS AND PHYSICS** Razavieh High School

## PROJECTS

### From natural language sentences to ontological concepts, instances, relations represented in Prolog via LLMs

- Designed and built a prototype LLM-based ontology extractor: prompted Gemini to identify concepts, instances, and relations in free-form text and emit Prolog facts.
- Packaged the pipeline as a Python tool generating '.pl' files; manually evaluated on 50 example sentences, achieving 88% accuracy in correct fact extraction.

### RAG System for Python Q&A

- Engineered a Retrieval-Augmented Generation pipeline: indexed 10k+ Python docs using dense vectors (FAISS), integrated with Gemini to deliver context-aware answers with 92% question coverage.
- Automated prompt-sampling evaluation framework to compare generation quality across 5 template variants.
- Leveraged Google Gemini for both embedding generation and as the LLM generator, improving retrieval

### Motion analysis

- Developed an automated motion analysis system that detected and tracked objects across video frames captured by a fixed camera and created trajectory mapping visualization to display object movement patterns over time

## WORK EXPERIENCE

**DATIS** – TEHRAN, IRAN  
**Business or Sector** Manufacturing | **Website** <https://www.datisint.com/>

### RESEARCH AND DEVELOPMENT SPECIALIST – 25/09/2021 – 20/03/2023

- Deploy real-time computer vision applications like age and gender recognition, face recognition, and plate recognition in embedded devices such as Jetson-nano
- Research on the latest artificial intelligence technologies to achieve the best performance
- Responsible for integrating and defining containerization technologies such as Docker

**SENSIFAI** – TEHRAN, IRAN

- Implemented machine learning models in production environments, enabling real-time inference and predictive analytics.
- Created RESTful APIs and microservices to facilitate dataflow between AI models and client applications.

UNIVERSITY OF QOM – QOM, IRAN

TEACHER ASSISTANT(ADVANCED PROGRAMMING, DATA STRUCTURE) – 01/03/2020 – 30/06/2021

- Tutored students on c++ programming and assisted in grading for the course titled ‘Advanced programming’ for two semesters with Prof. R.Baradaran.
- Tutored students on c++ programming and assisted in grading for the course titled ‘Data structure’ for one semester with Prof. Z.Imanimehr
- Graded students' assignments, tests, examination papers, and final projects
- Held regularly scheduled office hours to advise and assist students.
- Holding online classes to solve assignments and answer students' questions

IRAN TELECOMMUNICATION RESEARCH CENTER – TEHRAN, IRAN

NATURAL LANGUAGE PROCESS INTERN – 15/09/2019 – 05/02/2020

- Redesign a NLP model that was written for the English language to accomplish coreference recognition in the Persian newsletter

SKILLS

Artificial Intelligence

Python | Machine Learning | Tensorfow | Deep Learning | TensorRT | OpenCV | Hugging Face Transformers | Deepstream | ONNX & ONNX Runtime | Numpy | Pandas

Web development

Linux | Django | SQL | REST API | Docker

LANGUAGE SKILLS

Mother tongue(s): PERSIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2
ITALIAN	A2	A2	A1	A2	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user