

ALI VATANKHAH

Computer Engineering Academic | Applied AI & Data Mining

Research Direction: Health Data Science & Medical Informatics

Gorgan, Iran

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PROFILE

Computer engineering academic with 14+ years of university teaching, project supervision, and academic leadership since 2018, seeking funded doctoral/research opportunities in Health Data Science, Medical Informatics, and Applied Machine Learning for Healthcare.

- Teaching experience spans 4 higher-education institutions; core AI/data/database cohorts typically include approximately 40 students per semester.
- Supervised 10+ documented health-related topics in RapidMiner, comparing 3 classical classifier families.
- Progressed through 3 academic leadership roles; a signed 2026 reference documents Gorgan 3 enrolment growth from approximately 47 to about 500 (>10x).

RESEARCH INTERESTS

Health Data Science • Medical Informatics • Applied Machine Learning for Healthcare • Clinical Decision Support • Explainable & Responsible AI • Structured Health Data

EDUCATION

Sep 2012 - May 2015	M.Sc. in Computer Engineering - Software Payame Noor University, North Tehran Branch Iran Course-based programme; graduate seminar focused on Data Mining.
Sep 2009 - Jun 2011	B.Sc. in Computer Software Technology Engineering Mirdamad Institute of Higher Education Gorgan, Iran
Jan 2006 - Jun 2008	Associate Degree in Computer - Software National Skills University - Imam Ali Technical College Kordkuy, Iran

ACADEMIC TEACHING & RESEARCH SUPERVISION

Sep 2012 - Present	Lecturer, Computer Engineering / Computer Science National Skills University Gorgan, Iran • Teach Artificial Intelligence, Artificial Intelligence Laboratory, Database Systems, and internship/practical-training courses; typically about 40 students per semester. • Supervise undergraduate AI and data-mining projects from problem framing and dataset preparation through model comparison, interpretation, academic reporting, and final presentation. • Compare 3 classical classifier families in RapidMiner - decision trees, k-nearest neighbours, and Bayesian classification - using comparative model evaluation.
Oct 2020 - Present	Lecturer, Artificial Intelligence & Database Systems University of Applied Science and Technology (UAST) Gorgan, Iran Additional teaching at 2 institutions: Gorgan University of Agricultural Sciences and Natural Resources; Fakhruddin As'ad Gorgani Institute (2016). • Teach Artificial Intelligence, Database Systems, and practical-training / applied-project courses in applied higher education.

SELECTED HEALTH-DATA PROJECT SUPERVISION

2012 - Present

Undergraduate AI / Data-Mining Project Supervision

National Skills University | Gorgan, Iran

- Supervised 10+ documented health-related topics, including Alzheimer's disease, hypertension, anemia, kidney disease, stroke, lung cancer, and mental-health analysis.
- Students compared 3 core classifier families - decision trees, k-nearest neighbours, and Bayesian methods - in RapidMiner using collected or public datasets.
- Supervision emphasized transparent problem definition, data preparation, method selection, performance comparison, interpretation, reporting, and presentation rather than black-box model use.

ACADEMIC LEADERSHIP

Oct 2020 - Present

Head of University Center (Gorgan 3)

University of Applied Science and Technology (UAST) | Gorgan, Iran

- Lead academic, operational, strategic, and resource planning for a university centre serving about 500 students.
- Increased student enrolment from approximately 47 to about 500 (>10x), documented in a signed 2026 academic recommendation.
- Strengthened academic quality, faculty coordination, programme development, educational facilities, practical workshops, and student engagement.
- Supported improvements in operating stability and mobilized internal and external resources for student programmes and applied-learning initiatives.
- Represented heads of UAST centres in Golestan Province in institutional coordination and academic-quality discussions.

Feb 2019 - Oct 2020

Director of Education and Research

University of Applied Science and Technology (UAST) | Gorgan, Iran

- Coordinated educational and research activities, curriculum implementation, academic quality assurance, course delivery, instructor management, and student academic processes.
- Supported applied-learning programmes, institutional planning, and development of short-term professional education.

2018 - 2020

Head of Computer Department

National Skills University - Shahid Chamran Technical College | Gorgan, Iran

- Led academic coordination for the Computer Engineering group.
- Coordinated teaching activities and academic planning within the computer discipline.
- Supported instructor evaluation, course quality, student project supervision, and applied technical education.

ACADEMIC SERVICE & EVALUATION

2023 - 2026

Scientific Capability Assessment Working Group

University of Applied Science and Technology - Golestan Province | Iran

- Serve on a 3-member panel assessing applicants for university teaching authorization in the computer field through structured interviews and academic-capability review.

2023 - 2026

Provincial Committee for Selection of Outstanding Instructors

University of Applied Science and Technology - Golestan Province | Iran

2023

Provincial Coordination Committee for Expansion of Applied Higher Education

University of Applied Science and Technology - Golestan Province | Iran

- Contributed to review of programme continuation and new-programme requests in light of institutional performance and regional needs.

ACADEMIC SERVICE, MENTORING & EXTERNAL EVALUATION

Sep 2025 - Present	Faculty Advisor, Scientific Association National Skills University - Maedeh College Gorgan, Iran - Advise students on academic and professional development, linking technical learning with practical and industry-oriented activities. - Organized or facilitated 40+ specialized workshops and scientific/industry visits since 2025, with selected activities supporting students' transition into practical work pathways.
Ongoing	Reviewer of Industrial & Startup Proposals Golestan Science and Technology Park Iran Evaluated 11 documented AI-assisted and digital-technology proposals spanning online medical services, intelligent monitoring, forensic-medical consulting, IoT-based systems, and data-driven platforms.

BOOKS, INNOVATION & RECOGNITION

Selected record	3 book-length outputs / translations 1 registered invention 2 institutional recognitions
2025	Outstanding Lecturer University of Applied Science and Technology - Golestan Province Iran
2024	Selected Honoree National Skills University - Maedeh College Gorgan, Iran
2023	Comprehensive Guide to Effective Data Collection Co-translator.
2022	Technical Mentor - Creative Industries Startup Weekend National Skills University - Golestan Province Iran
2014	Artificial Intelligence in Plain Language Author / translator.
2014	Solved Exercises in Operating Systems Co-author.
2008	Registered Invention: Medical Mouse Assistive / medical-oriented computer-mouse concept.

METHODS & TECHNICAL PRACTICE

AI / Data Mining	RapidMiner; supervised classification workflows; decision trees; k-nearest neighbours; Bayesian classification; comparative model evaluation; dataset preparation and analysis
Computer Science	Database systems; software engineering; applied AI instruction
Academic Practice	Undergraduate project supervision; academic mentoring; curriculum and programme evaluation; faculty assessment; academic quality assurance
Leadership	Higher-education leadership; strategic planning; institutional development; resource management; academic-team coordination

LANGUAGES

Persian	Native
English	Intermediate; IELTS Academic preparation in progress

SELECTED ACADEMIC REFERENCE

23 Sep 2026	Prof. Dr. Hamidreza Asgari President, University of Applied Science and Technology - Golestan Province Iran Signed doctoral recommendation letter available upon request.
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