

B. Curriculum Vitae

Navid Yazdanjue

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 [Navid Yazdanjue](#)

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Birth Date: 20/08/1990

Marital Status: Single



Education

- ◇ (Oct 2022 - Oct 2025) **University of Technology Sydney & Digital Finance Cooperative Research Centre (DFCRC) - Sydney - Australia**
Ph.D. in Data Science
Thesis Title: *An Effective Hybrid Approach Combining Advanced Meta-heuristics with Enhanced Machine Learning Algorithms to Classify Online Text Documents (Deep/Dark Web Pages, Telegram Channels, Subreddits, and Pastebin's Pastes)*
Supervisor: Prof. Amir H. Gandomi, Prof. Fang Chen
Industry Partner: Cyber Intelligence House (CIH)
Industry Supervisor: Dr. Mikko S. Niemelä
- ◇ (Sep 2015 - Jan 2018) **Iran University of Science and Technology - Tehran - Iran**
M.Sc. in Information Technology Engineering - E-commerce
Thesis title: *A New Clustering-based Anonymization Model for Preserving the Social Network Users' Privacy*
Supervisor: Prof. M. Fathian, Dr. B. Amiri
GPA: 17.2/20 (Not including the thesis grade)
- ◇ (Feb 2010 - Sep 2014) **Azarbaijan University - Tabriz - Iran**
B.Sc. in Information Technology Engineering
B.Sc. Project title: *Design and Implementation of an Accounting and Inventory Software*
Supervisor: Dr. A. Bouyer

Honors and Awards

- ◇ **Finalist, Australian Cyber Awards 2026 - Cyber Rising Star (End User)**, recognising emerging impact in AI-driven cyber threat detection and applied cybersecurity research, Australia, 2026.
- ◇ **Finalist, Defence & National Security Workforce Awards 2026 - Best Cyber Technician or Specialist Under 35**, recognising contributions to applied AI-driven cyber threat detection research and industry impact, Australia, 2026.
- ◇ **Industry Ph.D. Scholarship Awardee of Australia's CRC Program**, Digital Finance Cooperative Research Centre (DFCRC), Australia, 2022.
- ◇ **Awardee of UTS International Research Scholarship (IRS)**, University of Technology Sydney, Australia, 2022.
- ◇ **Awardee of UTS President's Scholarship (UTSP)**, University of Technology Sydney, Australia, 2022.
- ◇ **Distinguished Speaker Award**, SMART SYSTEMS SYMPOSIUM: AI & ML for Real World, University of New South Wales (UNSW), 2025.

- ◇ Ranked **59th** among more than 15,000 participants in the nationwide university entrance exam of graduate studies in Information Technology Engineering, Iran, 2015.
- ◇ **Honorary Visiting Scholar Appointment**, UTS, 2025.
- ◇ The honor of defending *M.Sc.* thesis with the **Excellent** grade (**20/20**).
- ◇ The honor of defending *Ph.D.* thesis with **Excellent** examiner feedback.
- ◇ **Runner-Up Recognition (2nd Place)**, IEEE World Congress on Computational Intelligence (WCCI 2024) - Competition on Dynamic Optimization Problems Generated by the Generalized Moving Peaks Benchmark, Yokohama, Japan, 2024.

Research Interests

- ◇ Machine Learning Applications, Natural Language Processing, Generative AI, LLMs, Agentic AI, Meta-Heuristic Algorithms and Its Applications, Social Network Privacy Preserving, Social Network Analysis, Engineering Design & Design Structure Matrix Optimization

Selected Publications

- ◇ **N. Yazdanjue**, M. Rakhshaninejad, H. Yazdanjouei, M. S. Niemela, F. Chen, and A. H. Gandomi, "Cyber Threat Management Using Semi-Supervised Ensemble Learning and Enhanced Interior Search Algorithm: Applications for Illicit Marketplace Classification in Deep/Dark Web and Social Platforms," *Annals of Operations Research*, 2025.
- ◇ **N. Yazdanjue**, M. Rakhshaninejad, H. Yazdanjouei, M. S. Khorshidi, M. S. Niemela, F. Chen and A. H. Gandomi, "A Language Model-Driven Semi-Supervised Ensemble Framework for Illicit Market Detection Across Deep/Dark Web and Social Platforms," (in review process of *Journal of Big Data*).
- ◇ M. S. Khorshidi, **N. Yazdanjue**, H. Gharoun, D. Yazdani, M. R. Nikoo, F. Chen, and A. H. Gandomi, "Semantic-Preserving Feature Partitioning for Multi-View Ensemble Learning," *Information Fusion*, 2025.
- ◇ **N. Yazdanjue**, H. Yazdanjouei, R. Karimianghadim, and A. H. Gandomi, "An Enhanced Discrete Particle Swarm Optimization for Structural k-Anonymity in Social Networks," *Information Sciences*, vol. 670, pp. 120631, 2024.
- ◇ M. S. Khorshidi, **N. Yazdanjue**, H. Gharoun, M. R. Nikoo, F. Chen, and A. H. Gandomi, "GenForge: A Multi-population Genetic Programming Framework with Semantic-Preserving Feature Partitioning for Classification and Regression Tasks," *Software Impacts*, Elsevier, 2026.
- ◇ M. S. Khorshidi, **N. Yazdanjue**, H. Gharoun, D. Yazdani, M. R. Nikoo, F. Chen, and A. H. Gandomi, "Enhancing Classification Through Multi-view Synthesis in Multi-Population Ensemble Genetic Programming," *Proceedings of the Genetic and Evolutionary Computation Conference Companion (GECCO)*, pp. 2099-2102, 2024.
- ◇ **N. Yazdanjue**, H. Yazdanjouei, H. Gharoun, M. S. Khorshidi, M. Rakhshaninejad, and A. H. Gandomi, "A Comprehensive Bibliometric Analysis on Social Network Anonymization: Current Approaches and Future Directions," *Knowledge and Information Systems*, 2025.
- ◇ H. Gharoun, **N. Yazdanjue**, M. S. Khorshidi, F. Chen, and A. H. Gandomi, "Leveraging Neural Networks and Calibration Measures for Confident Feature

Selection,” IEEE Transactions on Emerging Topics in Computational Intelligence, Apr. 14, 2025.

- ◇ **N. Yazdanjue**, M. Fathian, and B. Amiri, “Evolutionary algorithms for k-anonymity in social networks based on clustering approach,” The Computer Journal, vol. 63, no. 7, pp. 1039-1062, 2020.
- ◇ **N. Yazdanjue** and E. Khanmirza, “An Application-Specific Approach for Design Structure Matrix Optimization: Focusing on the Cross Application of Modularization and Sequencing Methods,” IEEE Transactions on Engineering Management, 2021.
- ◇ E. Khanmirza, M. Haghbeigi, and **N. Yazdanjue**, “Enhanced Genetic and Imperialist Competitive Based Algorithms for Reducing Design Feedbacks in the Design Structure Matrix,” IEEE Transactions on Engineering Management, 2021.
- ◇ **N. Yazdanjue**, J. Itkonen, M. S. Niemelä, and A. H. Gandomi, “A Bibliometric Analysis of Adversarial Attacks and Countermeasures in AI/ML Cybersecurity,” in Advanced Intelligence Methods for Data Science and Optimization, (accepted for publication).
- ◇ M. S. Khorshidi, **N. Yazdanjue**, H. Gharoun, M. R. Nikoo, F. Chen, and A. H. Gandomi, “From Embeddings to Equations: Genetic-Programming Surrogates for Interpretable Transformer Classification,” arXiv preprint arXiv:2509.21341, Sep. 16, 2025 (in review process of IEEE Transactions on Emerging Topics in Computational Intelligence journal).
- ◇ M. Rakhshaninejad, M. Fathian, **N. Yazdanjue**, A. H. Gandomi, and F. Barzinpour, “Breast Cancer Biomarker Discovery Using an Enhanced Quantum-Based Avian Navigation Optimizer and Ensemble Learning Model,” (in 2nd review stage of IEEE Transactions on Computational Biology and Bioinformatics journal).
- ◇ H. Khosravi, B. Amiri, **N. Yazdanjue**, and V. Babaiyan, “An improved group teaching optimization algorithm based on local search and chaotic map for feature selection in high-dimensional data,” Expert Systems with Applications, vol. 204, 117493, 2022.
- ◇ M. Rakhshaninejad, M. Fathian, B. Amiri, and **N. Yazdanjue**, “An Ensemble-Based Credit Card Fraud Detection Algorithm Using an Efficient Voting Strategy,” The Computer Journal, 2021.
- ◇ B. Amiri, R. Karimianghadim, **N. Yazdanjue**, and L. Hossain, “Research topics and trends of the hashtag recommendation domain,” Scientometrics, vol. 126, no. 4, pp. 2689-2735, 2021.

Academic & Professional Experiences ---

- ◇ **Honorary Visiting Scholar** - University of Technology Sydney (UTS), Australia, Oct 2025 - present.
 - Contributing to the development of applied machine learning and meta-heuristic optimisation methodologies for large-scale, real-world applications through academic–industry collaboration.
 - Engaging in research mentoring, academic collaboration, and grant proposal development within the Data Science Institute.
 - Supporting HDR research discussions and collaborative supervision activities.
- ◇ **Lecturer** - Khazar University, Baku, Azerbaijan, Spring 2026 - Present.
 - Teaching courses: Data Structures and Database Management Systems.

- Preparing and delivering lectures, tutorials, and course materials for core computer science subjects.
 - Designing assignments and coordinating coursework and midterm assessments.
 - Supporting students in algorithm design, programming concepts, and database fundamentals.
- ◇ **Research Collaborator** - Cyber Intelligence House (CIH), Finland Office, “*Cyber Threat Detection and Illicit Marketplace Classification Using Advanced Machine Learning and Meta-Heuristic Optimization Techniques*,” Oct 2022 - Dec 2025.
 - ◇ **Tutorial Presenter** - Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2025), “Heuristics and Meta-Heuristics for Social Networks Privacy Preserving: Concepts and Applications,” Tutorial, Sydney, Australia, June 2025, ([Proof](#)).
 - ◇ **Presentation** - SMART SYSTEMS SYMPOSIUM: AI & ML For REAL WORLD, University of New South Wales (UNSW), “*Social Network Privacy Preservation*,” May 2025, ([Proof](#)).
 - ◇ **Presentation** - Second Workshop on Genetic Programming for Data Analysis (GPDA), University of Technology Sydney (UTS), “*Social Network Anonymization Using an Enhanced Discrete Particle Swarm Optimization*,” March 2025, ([Proof](#)).
 - ◇ **Presentation** - Second Workshop on Genetic Programming for Data Analysis (GPDA), University of Technology Sydney (UTS), “*Surrogate Modeling and Machine Learning Approaches for Electric Motor Design Optimization*,” March 2025, ([Proof](#)).
 - ◇ **Presentation** - Digital Finance Cooperative Research Centre (DFCRC), Sydney, Australia, “*A Language Model-Driven Semi-Supervised Ensemble Framework for Illicit Market Detection*,” July 2025, ([Proof](#)).
 - ◇ **Presentation** - Digital Finance Cooperative Research Centre (DFCRC), Sydney, Australia, “*Cyber Threat Management Using Semi-Supervised Ensemble Learning and Enhanced Interior Search Algorithm*” Sep 2024, ([Proof](#)).
 - ◇ **Research Assistant** - Office of Technology Transfer and Commercialization, Iran University of Science and Technology, Tehran, Iran, “*Optimizing Design Structure Matrices in Complex Engineering Design*”, Oct 2019 - Oct 2020, ([Proof of RA Appointment](#)).
 - ◇ **Research Assistant** - Office of Technology Transfer and Commercialization, Iran University of Science and Technology, Tehran, Iran, “*Reducing Design Feedbacks and Loops in Design Structure Matrices*”, Oct 2018 - Oct 2019, ([Proof of RA Appointment](#)).
 - ◇ **Teaching Assistant** - Iran University of Science and Technology, Tehran, Iran, “*Meta-Heuristic Optimization Algorithms*” Course, fall 2019 (Sep 2019 - Jan 2020), Responsibilities included problem solving, course lectures, setting and grading homework, projects, ([Proof of TA Appointment](#)).
 - ◇ **Teaching Assistant** - Iran University of Science and Technology, Tehran, Iran, “*Technologies and Tools for E-commerce Development*” Course, spring 2019 (Jan - May 2019), Responsibilities included problem solving, setting and grading homework, projects and exams, ([Proof of TA Appointment](#)).
 - ◇ **Teaching Assistant** - Iran University of Science and Technology, Tehran, Iran, “*Programming Language*” Course, fall 2018 (Sep 2018 - Jan 2019), Responsibilities included problem solving, course lectures, setting and grading homework, projects and exams, ([Proof of TA Appointment](#)).

- ◇ **Teaching Assistant** - Iran University of Science and Technology, Tehran, Iran, “*Designing and Evaluation of Business Systems*” Course, fall 2018 (Sep 2018 - Jan 2019), Responsibilities included problem solving, setting and grading homework, projects and exams, ([Proof of TA Appointment](#)).
- ◇ **Lecturer/Tutor** - Students’ Scientific Association of the Industrial Engineering Faculty, Iran University of Science and Technology, Tehran, Iran, “*Python Programming and Data Science in Python*” Course, spring 2019 (Apr - May 2019), ([Proof of Tutoring Appointment](#)).
- ◇ **Lab Assistant** - “*Meta-Heuristic Optimization Algorithms*” Lab, Iran University of Science and Technology, Tehran, Iran, fall 2019 (Sep 2019 - Jan 2020), Responsibilities included problem solving, ([Proof of Appointment](#)).
- ◇ **Lab Assistant** - “*E-commerce*” Lab, Iran University of Science and Technology, Tehran, Iran, spring 2019 (Jan - May 2019), Responsibilities included problem solving, ([Proof of Appointment](#)).
- ◇ **Reviewing Roles** - Journal of Computational Design and Engineering (Elsevier) (1 manuscript review), 2026.
- ◇ **Reviewing Roles** - The Journal of Supercomputing (Springer Nature) (1 manuscript review), 2026.
- ◇ **Reviewing Roles** - Reviewer of IEEE Transactions on Evolutionary Computation (IEEE) (2 manuscript reviews), 2025.
- ◇ **Reviewing Roles** - Reviewer of Knowledge and Information Systems (Springer Nature) (1 manuscript review), 2025.
- ◇ **Reviewing Roles** - Reviewer of Scientific Reports (Springer Nature) (1 manuscript review), 2025.
- ◇ **Reviewing Roles** - Reviewer of Internet of Things (Elsevier) (1 manuscript review), 2024.
- ◇ **Reviewing Roles** - Reviewer of Artificial Intelligence Review (Springer Nature) (1 manuscript review), 2022.
- ◇ **Reviewing Roles** - Reviewer of Kybernetes (Emerald) (1 manuscript review), 2022.

Technical and Computer Skills ---

- ◇ **Programming Languages:** Python, MATLAB, Julia, C#.NET, C++, SQL
- ◇ **Machine Learning, Deep Learning & Artificial Intelligence:** Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost, AutoKeras, TPOT, Auto-sklearn, ensemble learning frameworks, semi-supervised learning techniques, feature engineering, model selection, hyperparameter optimisation, evolutionary and meta-heuristic optimisation methods.
- ◇ **Natural Language Processing (NLP) & Large Language Models:** Hugging Face Transformers, NLTK, Gensim, fastText, regex-based text processing, document classification, contextual embeddings, transformer-based models (e.g., BERT-family), language model fine-tuning, retrieval-augmented generation (RAG) pipelines, text representation and semantic retrieval techniques.
- ◇ **Data Science, Data Analysis & Scientific Computing Libraries:** Pandas, NumPy, Matplotlib, Seaborn, SciPy, PySpark, SparkML.
- ◇ **Social Network Analysis & Graph Mining:** NetworkX, Gephi, Pajek, Graphviz.

- ◇ **Statistical Analysis & Data Analytics Software:** Minitab, SPSS, KNIME, Microsoft Excel.
- ◇ **Bibliometric and Scientometric Analysis Tools:** VOSviewer, SciMAT, CitNetExplorer, MapEquation.
- ◇ **Database Systems & Data Management:** Microsoft SQL Server, Elasticsearch (document indexing and retrieval).
- ◇ **Cloud Platforms, MLOps & Research Computing Tools:** AWS (SageMaker, Bedrock, Data Wrangler), Databricks, MLflow, Git.
- ◇ **General Computing & Research Tools:** Linux, Windows, Microsoft Word, PowerPoint, Prezi.

Language Skills

- ◇ **Persian:** Native, **English:** Fluent, TOEFL score: 94 (Reading: 26 | Listening: 22 | Speaking: 23 | Writing: 23), Sep 2021, **Turkish:** Familiar

Extracurricular Activities

- ◇ Playing Football, Volleyball, Chess, Swimming, and Mountain Climbing, Watching Documentaries and Reading Novels, Science-Fiction and History Books

References

- ◇ **Prof. Amir H. Gandomi (Professor of Data Science at UTS)**
Data Science Institute, Faculty of Engineering and IT (FEIT), University of Technology Sydney, Australia
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- ◇ **Prof. Fang Chen (Distinguished Professor of Data Science at UTS)**
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