

POORIYA JAMIE

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Computer Science Enthusiast | Proficient in Machine Learning, Human-Computer Interaction, Computer Science Education, and Algorithm Design | Seeking Graduate Programs

Education

Amirkabir University of Technology (Tehran Polytechnic), B.Sc. in Computer Science

Sep 2021 - present

GPA: 18.53/20 (3.88/4)

Major Courses: Computer Programming (20/20)

Data Structures and Algorithms (19.5/20)

Linear Optimization (18.6/20)

Major Subject GPA: 4/4

Artificial Intelligence (19.5/20)

Image Processing (20/20)

Human-Computer Interaction (in progress)

Top 10%

Data Mining (19.82/20)

Design & Analysis of Algorithms (20/20)

National Organization for Development of Exceptional Talents (NODET), Diploma

Sep 2017 - Jan 2021

Publications

Chauhan, Anishka, Mayur, Pratham, Gokarakonda, Yeshwanth Sai, [Jamie, Pooriya](#), and Mehrotra, Naman. (2024). “**Indian Stock Market Prediction using Augmented Financial Intelligence ML**”. Available at [SSRN](#) | [DOI](#)

[Jamie, Pooriya](#), Hajihashemi, Reyhaneh, and Alipour, Sharareh. (2024). “**Utilizing ChatGPT in a Data Structures and Algorithms Course: A Teaching Assistant’s Perspective**”. SIGCSE TS 2025 (Under review).

Honarmand, Melika, Shandilya, Sahaj, Li, Junzhang, Mayur, Pratham, [Jamie, Pooriya](#), and Treleaven, Philip. (2024, expected). “**Emotion-aware Musical Recommendation System using Contextual Analysis**”. (In preparation).

Research Experience

Research Intern: AI-assisted Assignment Assessment System, University of Twente

Jul 2024 - Present

Under the supervision of Dr. Mohammadreza Farrokhnia

- Developing an AI-assisted assignment assessment system that measures how much feedback has been applied in the final assignment.
- Utilized ChatGPT to provide constructive feedback to students and improve areas in their assignments.

Research Assistant: Deep Learning Approaches for Imbalanced Data in Fraud Detection, Tehran Polytechnic

Feb 2024 - Present

Under the supervision of Prof. Mehdi Ghatee and Behnam Yousefimehr

- Exploring various deep learning architectures, such as CNNs, RNNs, and GANs, to handle imbalanced datasets in fraud detection tasks.

Research Assistant: ChatGPT's Impact on Education, Tehran Institute for Advanced Studies (TeIAS)

Oct 2023 - Jul 2024

Under the supervision of Dr. Sharareh Alipour

- Analyzed the potential of ChatGPT in research and teaching domains, focusing on its influence on educational practices.
- Conducted studies, including surveys and interviews, to understand ChatGPT's adoption and utilization by educators.

Research Assistant: Emotion-aware Musical Recommendation System, University College London (UCL)

Dec 2023 - Apr 2024

Under the supervision of Prof. Philip Treleaven

- Developed a novel music recommendation system using contextual analysis of song lyrics.
- Focused on extracting sentiment-rich summaries from song lyrics using a combination of unsupervised and supervised techniques, including Text-Ranking, Bert-Extractive-Summarizer, and GPT-3.5 insights.

Research Intern: Augmented Financial Intelligence Project, University College London (UCL)

Jan 2023 - Dec 2023

Under the supervision of Prof. Philip Treleaven

- Enhanced machine learning infrastructure and led literature review.
- Developed a platform for forecasting financial trends in the Indian market using machine learning techniques.

Research Interests

Computer Science Education

LLMs in Education

Learning Analytics

Learning Sciences

AI in Education

Educational Technology

Educational Data Mining

Educational Equity

Artificial Intelligence

Machine Learning

Deep Learning

Computer Vision

Image Processing

Human-Computer Interaction

Human-AI interaction

User Experience (UX) Design

Teaching Assistant Experience

Data Structures and Algorithms Head	Tehran Polytechnic and Sharif University, Feb 2024 - Jun 2024
Numerical Calculations	Tehran Polytechnic, Feb 2024 - Jun 2024
Foundation of Numerical Analysis	Tehran Polytechnic, Feb 2024 - Jun 2024
Algorithmic Game Theory	Sharif University of Technology and TeIAS, Jan 2024 - Jun 2024
Principles and Techniques in Data Science	Sharif University of Technology, Jan 2024 - May 2024
Data Mining	Tehran Polytechnic, Oct 2023 - Jan 2024
Data Structures and Algorithms Head	Tehran Polytechnic, Oct 2023 - Jan 2024
Linear Algebra	Sharif University of Technology, Oct 2023 - Nov 2023
Algorithmic creativity and Python programming	Sharif University of Technology, Jul 2023 - Sep 2023
Data Structures and Algorithms	Tehran Polytechnic, Feb 2023 - Jul 2023
Foundation of Combinatorics	Tehran Polytechnic, Feb 2023 - Jul 2023
Introduction to Computer and Programming	Tehran Polytechnic, Oct 2022 - Jan 2023
Advanced Programming & Workshop	Tehran Polytechnic, Sep 2022 - Jan 2023

Other Experiences

Tester and Mentor of Short Courses	DeepLearning.AI, Aug 2023 - Jan 2024
o Took on the role of testing and mentoring for short courses, ensuring quality, effectiveness, and supporting participants' learning process.	
Data Science Bootcamp	Quera, Aug 2023 - Nov 2023
o Participated in a 12-week intensive data science program covering topics such as Data Analysis, Machine Learning, Data Visualization, Data Mining, Deep Learning, Power BI, SQL, NLP, and Soft Skills. Completed industry-relevant projects for practical experience.	
Mentor of AI For Everyone Course	DeepLearning.AI, Oct 2022 - Aug 2023
o I try to answer learners' questions about different fields of artificial intelligence in discourse at the DeepLearning.AI website.	
Programming Contest Coordinator	Tehran Polytechnic
o Designed algorithm and mathematical programming questions for a competition with 600+ participants.	

Practical Skills

Machine Learning libraries:	TensorFlow, PyTorch, scikit-learn
Computer Vision libraries:	OpenCV
Data analysis libraries:	NumPy, Pandas
Data visualization libraries:	Matplotlib, Seaborn
Deep Learning frameworks:	Keras
Programming languages:	Python, C, C++, R
Web Development:	HTML, CSS, WordPress
Soft Skills:	Communication, Teamwork and Collaboration, Persistent and Curious

Certifications

TASK-ORIENTED BOOTCAMP IN DATA SCIENCE	Quera, Nov 2023
Unsupervised Learning, Recommenders, Reinforcement Learning	Coursera, DeepLearning.AI, Stanford University, Aug 2023
Advanced Learning Algorithms	Coursera, DeepLearning.AI, Stanford University, Jul 2023
Linear Algebra For Machine Learning and Data Science	Coursera, DeepLearning.AI, Stanford University, Mar 2023
Python for Data Science	Uplimit, Mar 2023
Mathematics for Machine Learning: Linear Algebra	Coursera, Imperial College London, Nov 2022
Supervised Machine Learning: Regression and Classification	Coursera, DeepLearning.AI, Stanford University, Nov 2022
AI For Everyone	Coursera, DeepLearning.AI, Sep 2022
Improve Your English Communication Skills Specializations	Coursera, Georgia Institute of Technology, Aug 2022
Introduction to User Experience Design	Coursera, Georgia Institute of Technology, Feb 2022
Advanced Algorithmic thinking and Data structure	Quera, Jun 2020
Fundamental of C++ programming and algorithm thinking	Quera, May 2020

Languages

Persian: Native proficiency
English: Professional working proficiency (TOEFL exam registered for October 19, 2024)