

POORIYA JAMIE

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Google Scholar: [Link](#) | LinkedIn: [linkedin.com/in/pooriya-jamie](https://www.linkedin.com/in/pooriya-jamie) | GitHub: github.com/pooriya-jamie | Website: pooriya-jamie.github.io

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 (Major Subject GPA: 4/4, Top 10%)

National Organization for Development of Exceptional Talents (NODET), Diploma *Sep 2017 - Jan 2021*

Publications

Published

Chauhan, Anishka, Mayur, Pratham, Gokarakonda, Yeshwanth Sai, **Jamie, Pooriya**, and Mehrotra, Naman.
"Indian Stock Market Prediction using Augmented Financial Intelligence ML" (January 17, 2024). [SSRN](#) | [DOI](#)

Under Review

Jamie, Pooriya, Hajhashemi, Reyhaneh, and Alipour, Sharareh. "Utilizing ChatGPT in a Data Structures and Algorithms Course: A Teaching Assistant's Perspective." Under review in SIGCSE TS 2025.

Forthcoming

Honarmand, Melika, Shandilya, Sahaj, Li, Junzhang, Mayur, Pratham, **Jamie, Pooriya**, and Treleaven, Philip.
"Emotion-aware Musical Recommendation System using Contextual Analysis."

Research Experience

• University of Twente

- **Research Intern: AI-assisted Assignment Assessment System** *Jul 2024 - Present*
 - Collaborating with Dr. Mohammadreza Farrokhnia on developing an AI-assisted assignment assessment system.
 - Utilized ChatGPT to provide constructive feedback to students and improve areas in their assignments.

• Amirkabir University of Technology (Tehran Polytechnic)

- **Research Assistant: Deep Learning Approaches for Imbalanced Data in Fraud Detection** *Feb 2024 - Present*
 - Currently working as an RA in the NORC Lab, supervised by 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.

• Tehran Institute for Advanced Studies (TeIAS)

- **Research Assistant: ChatGPT's Impact on Education** *Oct 2023 - Jul 2024*
 - Worked 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.

• University College London (UCL)

- **Research Assistant: Emotion-aware Musical Recommendation System** *Dec 2023 - Apr 2024*
 - Collaborated with Prof. Philip Treleaven and a team on developing 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** *Jan 2023 - Dec 2023*
 - Enhanced machine learning infrastructure and led literature review under the supervision of Prof. Philip Treleaven.
 - Developed a platform for forecasting financial trends in the Indian market using machine learning techniques.

Teaching Experience

Data Structures and Algorithms Head <ul style="list-style-type: none">Under the supervision of Dr. Sajad Shirali-Shahreza	<i>Tehran Polytechnic and Sharif University, Feb 2024 - Jun 2024</i>
Numerical Calculations <ul style="list-style-type: none">Under the supervision of Dr. Mostafa Abbaszadeh	<i>Tehran Polytechnic, Feb 2024 - Jun 2024</i>
Foundation of Numerical Analysis <ul style="list-style-type: none">Under the supervision of Dr. Mostafa Shamsi	<i>Tehran Polytechnic, Feb 2024 - Jun 2024</i>
Algorithmic Game Theory <ul style="list-style-type: none">Under the supervision of Dr. Masoud Seddighin	<i>Sharif University of Technology and TeIAS, Jan 2024 - Jun 2024</i>
Principles and Techniques in Data Science <ul style="list-style-type: none">Under the supervision of Dr. MohammadAmin Fazli	<i>Sharif University of Technology, Jan 2024 - May 2024</i>
Data Mining <ul style="list-style-type: none">Under the supervision of Dr. Maryam Amirmazlaghani	<i>Tehran Polytechnic, Oct 2023 - Jan 2024</i>
Data Structures and Algorithms Head <ul style="list-style-type: none">Under the supervision of Dr. Sajad Shirali-Shahreza	<i>Tehran Polytechnic, Oct 2023 - Jan 2024</i>
Linear Algebra <ul style="list-style-type: none">Under the supervision of Dr. Ali Sharifi-Zarchi	<i>Sharif University of Technology, Oct 2023 - Nov 2023</i>
Algorithmic creativity and Python programming <ul style="list-style-type: none">Under the supervision of Dr. Ali Sharifi-Zarchi	<i>Sharif University of Technology, Jul 2023 - Sep 2023</i>
Data Structures and Algorithms <ul style="list-style-type: none">Under the supervision of Dr. Sajad Shirali-Shahreza	<i>Tehran Polytechnic, Feb 2023 - Jul 2023</i>
Foundation of Combinatorics <ul style="list-style-type: none">Under the supervision of Dr. Zeinab Akhlaghi	<i>Tehran Polytechnic, Feb 2023 - Jul 2023</i>
Introduction to Computer and Programming <ul style="list-style-type: none">Under the supervision of Dr. Mohammad Akbari	<i>Tehran Polytechnic, Oct 2022 - Jan 2023</i>
Advanced Programming & Workshop <ul style="list-style-type: none">Under the supervision of Dr. Mohammad Mahdi Bejani	<i>Tehran Polytechnic, Sep 2022 - Jan 2023</i>

Other Experiences

Tester and Mentor of Short Courses <ul style="list-style-type: none">Took on the role of testing and mentoring for short courses, ensuring quality, effectiveness, and supporting participants' learning process.	<i>DeepLearning.AI, Aug 2023 - Jan 2024</i>
Data Science Bootcamp <ul style="list-style-type: none">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.	<i>Quera, Aug 2023 - Nov 2023</i>
Mentor of AI For Everyone Course <ul style="list-style-type: none">I try to answer learners' questions about different fields of artificial intelligence in discourse at the DeepLearning.AI website.	<i>DeepLearning.AI, Oct 2022 - Aug 2023</i>
Programming Contest Coordinator <ul style="list-style-type: none">Designed algorithm and mathematical programming questions for a competition with 600+ participants.	<i>Tehran Polytechnic</i>

Research Interests

- Machine learning (including deep learning, reinforcement learning, and unsupervised learning)
- Computer Science Education (LLMs in Education, Learning Analytics, AI in Education, Educational Technology, and Educational Data Mining)
- Human-Computer Interaction (HCI) and Human-AI interaction
- Computer Vision and Image Processing
- Data Mining and Data Science Applications
- Artificial Intelligence
- Foundational Models
- Algorithm Design and Analysis
- Graph Machine Learning

Skills

- Analytical Problem-solving
- Machine Learning Algorithms
- Educational Technology Tools

- Deep Learning Techniques
- Data Collection, Cleaning, Preprocessing and Visualization
- User Experience (UX) and User Interface (UI) design principles
- Data Mining Techniques
- Web Development
- LLM Techniques
- Qualitative and Quantitative Methods
- Pedagogical Knowledge
- Persistent and Curious
- Communication Skills
- Teamwork and Collaboration

Practical Skills

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

Major Courses (GPA 4/4)

- Introduction to Computer and Programming (20/20)
- Principles of Computer Systems (19.5/20)
- Data Structures and Algorithms (19.5/20)
- Linear Optimization (18.6/20)
- Data Mining (19.82/20)
- Theoretical Fundamentals of Calculation (19.5/20)
- Design & Analysis of Algorithms (20/20)
- Artificial Intelligence and Workshop (19.5/20)
- Topics in Mathematics and Its Applications: Image Processing (20/20)
- Foundation of Numerical Analysis (20/20)
- Principles of Operating Systems (20/20)

Certifications

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

Languages

- Persian: Native proficiency
- English: Professional working proficiency

Reference

1. Dr. Sajad Shirali-shahreza
Assistant Professor of Computer Engineering
Institution: Amirkabir University of Technology (AUT)
Email: shirali@aut.ac.ir