

# POORIYA JAMIE

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**Computer Science Enthusiast | Proficient in Machine Learning, Data Science, Algorithm Theory, and HCI | Seeking Internship/Research Assistant Opportunity**

## Education

- Amirkabir University of Technology (Tehran Polytechnic), B.Sc. in Computer Science** *Sep 2021 – present*
- GPA: 18.5/20 (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). Available at SSRN: [SSRN](#) | [DOI](#)

### Forthcoming

- Music with AI: Contextual Feeling-Based Music Recommender (forthcoming).**
- Manuscript prepared; author list to be finalized.
- Using ChatGPT in Data Structure Courses: Teaching Assistant Perspective (forthcoming).**
- Manuscript for submission to The 56th ACM Technical Symposium on Computer Science Education.

## Research Experience

- Amirkabir University of Technology (Tehran Polytechnic)**
  - Research Assistant: Deep Learning Approaches for Imbalanced Data in Fraud Detection** *Feb 2023 - 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)**
  - Researcher in Human-Computer Interaction (HCI): ChatGPT's Impact on Education** *Oct 2023 - Present*
    - Working under the supervision of Dr. Sharareh Alipour, exploring the future potential of ChatGPT in research and teaching domains, analyzing its influence on individuals' lives and the transformation of practices in these fields.
    - Conducting comprehensive studies, including surveys, interviews, and experiments, to understand how ChatGPT is adopted and utilized by researchers and educators.
- University College London (UCL)**
  - Remote Internship: Augmented Financial Intelligence Project** *Jan 2023 – Dec 2023*
    - Under Prof. Philip Treleaven's supervision, I collaborated on a team to develop a robust platform for forecasting long-term financial trends in the Indian market using diverse machine learning techniques.
    - I played a key role in enhancing the platform's machine learning infrastructure, focusing on tasks like data preprocessing, algorithm selection, and model training.
    - Regularly communicated progress, results, and challenges to team members and stakeholders.
    - Led the literature review section of the paper, analyzing existing research and summarizing machine learning aspects

## Teaching Experience

- Data Structures and Algorithms Head** *Tehran Polytechnic and Sharif University, Feb 2024 - Present*
  - Under the supervision of Dr. Sajad Shirali-Shahreza
- Numerical Calculations** *Tehran Polytechnic, Feb 2024 - Present*
  - Under the supervision of Dr. Mostafa Abbaszadeh

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

## Other Experiences

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

## Research Interests

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

## Skills

- Analytical Problem-solving
- Machine Learning Algorithms
- Human-Computer Interaction (HCI)
- Deep Learning Techniques

- Data Preprocessing and Visualization
- Data Mining Techniques
- NLP techniques
- Web Development
- LLM Techniques
- Persistent and Curious
- Communication Skills
- Teamwork and Collaboration

## Practical Skills

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- 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)

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- 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 (In Process)
- Topics in Computer Science: Neural Networks and Introduction to Deep Learning (In Process)

## Certifications

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• 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

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- Persian: Native proficiency
- English: Professional working proficiency

## Reference

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