

# Sobhan Salarian — Data Scientist

Sydney, NSW, Australia

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## Profile

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Master of Data Science student with strong analytical thinking and a passion for extracting actionable insights from data. Skilled in data analysis, visualization, machine learning, and big data processing. I enjoy solving real-world problems through data-driven approaches and continuously improving my technical expertise, especially in Python, SQL, and distributed systems.

## Education

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<b>Macquarie University</b> <i>Master of Data Science</i>	<b>Sydney, NSW</b> <i>2025–Present</i>
<b>Kermanshah University of Technology</b> <i>Bachelor of Computer Engineering</i>	<b>Kermanshah, Iran</b> <i>2018–2023</i>
<b>Adel High School of Isfahan University</b> <i>Pre-University, Mathematics Major</i>	<b>Isfahan, Iran</b> <i>2017–2018</i>
<b>Adel High School of Isfahan University</b> <i>High School Diploma, Mathematics Major</i>	<b>Isfahan, Iran</b> <i>2014–2017</i>

## Technical Skills

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**Programming:** Python (Pandas, NumPy, Matplotlib, Seaborn, Bokeh), SQL  
**Big Data:** MapReduce, MrJob, MongoDB, PyMongo, R-Tree Structures, Skyline Queries  
**Machine Learning:** Regression Models, Data Preprocessing, Feature Engineering  
**Databases:** MySQL, MongoDB  
**Data Visualization:** Power BI, Matplotlib, Seaborn, Bokeh  
**Tools:** Git, GitHub, Jupyter, VS Code  
**Web:** HTML, CSS

## Professional Experience

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<b>IRISA Company</b> <i>Data Science Intern</i>	<b>Isfahan, Iran</b> <i>July–September 2022</i>
<ul style="list-style-type: none"><li>○ Cleaned and preprocessed raw datasets using Python, resolving missing and inconsistent values.</li><li>○ Loaded and managed processed data in MySQL databases using Python connectors.</li><li>○ Assisted in designing data pipelines to improve data availability and reliability.</li></ul>	

## Projects

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<b>Spatial Data Analysis with R-Trees &amp; Skyline Queries</b>	<b>2025</b>
<ul style="list-style-type: none"><li>○ Implemented R-Tree data structures from scratch to enable efficient spatial querying.</li><li>○ Developed algorithms for Nearest Neighbor Search and Skyline Querying on 2D datasets.</li><li>○ Compared performance across Sequential Scan, Branch-and-Bound, and Divide-and-Conquer BaB methods.</li><li>○ Analyzed datasets including restaurants, shops, parking locations, and housing records.</li></ul>	

<i>Big Data Weather Analysis using MapReduce &amp; MongoDB</i>	2025
<ul style="list-style-type: none"> <li>○ Processed large Australian weather datasets using MongoDB and MapReduce (MrJob).</li> <li>○ Built MapReduce pipelines for sorting observations, detecting extreme weather chains, and computing rainfall statistics.</li> <li>○ Designed flowcharts and documentation illustrating the distributed processing workflow.</li> </ul>	
<i>Tennis Tournament Data Analysis</i>	2024
<ul style="list-style-type: none"> <li>○ Analyzed tournament data to answer 25 analytical questions on winners, hosting locations, and performance patterns.</li> <li>○ Used Pandas for handling parquet files, data cleaning, and statistical processing.</li> <li>○ Visualized insights using Matplotlib and NumPy.</li> </ul>	
<i>Personal Portfolio Website</i>	2024
<ul style="list-style-type: none"> <li>○ Built and deployed a personal portfolio website using HTML, CSS, and JavaScript.</li> <li>○ Published the site using GitHub Pages to showcase projects and technical skills.</li> </ul>	
<i>Flight Delay Analysis System</i>	2023
<ul style="list-style-type: none"> <li>○ Analyzed flight delay trends across multiple airlines using Python (Pandas, Bokeh).</li> <li>○ Developed a machine-learning based recommender system suggesting the least delay-prone airlines.</li> <li>○ Created interactive delay visualizations using Bokeh.</li> </ul>	

## Professional Certifications

<b>Daneshkar Academy</b>	
<i>Data Analysis Bootcamp</i>	2024
<ul style="list-style-type: none"> <li>○ Covered statistics, SQL, MySQL, data manipulation with Pandas/NumPy.</li> <li>○ Built dashboards and reports using Power BI.</li> <li>○ Learned machine learning fundamentals and Git/GitHub workflows.</li> </ul>	
<b>Coursera</b>	
<i>Python Programming for Everybody</i>	2023–2024
<ul style="list-style-type: none"> <li>○ Learned foundational and intermediate Python programming concepts.</li> <li>○ Gained experience with database integration and basic data analysis.</li> </ul>	
<i>TOEFL iBT</i>	<b>Score: 87</b> 2023
<i>IELTS Academic</i>	<b>Overall: 6.5</b> 2024

## Languages

<b>Persian (Farsi):</b> Native	
<b>English:</b> Professional Working Proficiency	IELTS 6.5