Mohammed Rayyan Usmani

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Technical Skills

Languages: Python, MySQL, Oracle SQL, Racket, HTML, CSS
Libraries: pandas, NumPy, Matplotlib, Gemini API
Frameworks: Flask, SQLAlchemy, SQLite, Flask-SocketIO
Developer Tools: Jira, Microsoft Excel, Tableau, Power BI, Jupyter Notebook

Work Experience

Business Analyst January 2026 – Present
Bank of Montreal *Toronto, ON*

- Elicited and documented functional and non-functional business requirements by collaborating with stakeholders, managing tasks and tracking deliverables in Jira
- Queried and analyzed business data using Oracle SQL to identify process inefficiencies, presenting insights and recommendations that informed team decisions
- Developed test cases to validate business requirements and support end-user testing, troubleshooting issues raised by business users across the project lifecycle

Marketing Intern May 2026 – August 2026
SacredHand Canada *Mississauga, ON*

- Led expansion of brand presence by launching and optimizing company pages on LinkedIn and Instagram
- Developed a multi-platform marketing strategy to increase brand awareness and credibility
- Conducted performance analysis and delivered strategic recommendations for long-term growth

Business Analyst January 2025 - March 2025
CoAuditor *Remote*

- Analyzed social media performance metrics to identify engagement trends and measure audience growth
- Delivered data-driven recommendations and a performance report that refined content strategy and grew follower base across company platforms by over 50%
- Created on-brand promotional content to build credibility and increase brand awareness

Projects

ChatBase | *Python, Flask, Flask-SocketIO, SQLAlchemy, SQLite*

- Built a real-time messaging platform using Flask and Flask-SocketIO, supporting 50+ concurrent users with sub-100ms WebSocket message delivery across group chats and direct messages
- Designed a normalized 4-table SQLAlchemy schema persisting 500+ messages, implementing a DM deduplication algorithm with Python set intersection to prevent duplicate conversations
- Secured the app with Werkzeug password hashing, Flask session management, and a before_request middleware guard protecting 10+ routes from unauthorized access

FIFA World Cup Historical Analysis | *Python, Pandas, NumPy, Matplotlib*

- Analyzed 900+ World Cup matches across 21 tournaments (1930–2022) using Pandas, engineering features like win rates, decade buckets, and a host-advantage metric across 4 merged datasets
- Quantified a 9% host nation win rate advantage and identified goal-scoring decline since the 1950s by aggregating and grouping 17,000+ international match records
- Built 6 Matplotlib visualizations comparing team dominance in group stages vs. knockout rounds, revealing that top group-stage performers maintain form under elimination pressure

Tech Layoffs Analysis | *SQL, Tableau*

- Queried 2,000+ layoff records across 50+ companies and 10+ industries using MySQL, writing 6 queries with window functions and CTEs to surface industry rankings and month-over-month and year-over-year trends
- Built an overhirer metric to flag outlier companies, and designed a 4-chart interactive Tableau Public dashboard visualizing layoffs by industry, country, time trend, and top 10 companies

Education

University of Waterloo Waterloo, ON
Bachelor of Mathematics *2025 - Present*