

JASLEEN MINHAS

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EDUCATION

Master's in Computer Science (Course-based)

Memorial University of Newfoundland, St. John's, NL, CANADA

January 2025

GPA: 4

Bachelor's of Engineering in Computer Science

(Major: Artificial Intelligence and Machine Learning)

Chandigarh University, Punjab, INDIA

Sept 2020 – June 2024

CGPA: 9.01/10 (Gold Medalist)

WORK EXPERIENCE

Data Analyst

Sunlife Global Solutions, Gurgaon, INDIA

July 2024 - Dec 2024

- Designed and delivered **interactive dashboards and performance reports** using Tableau and Power BI, enabling real-time, data-driven decision-making across multiple business units.
- Automated **data extraction, transformation, and reporting workflows** using Python and Excel macros, improving report accuracy and reducing turnaround time by 40%.
- Partnered with stakeholders to **translate business requirements into data solutions**, uncovering actionable insights that informed strategic decisions.
- Utilized **SQL and Snowflake** for querying and managing large datasets, enhancing data accessibility and reliability for cross-functional teams.

Data Integration and Visualisation Developer Intern

Emerson Information Technology Solutions, Mohali, INDIA

Jan 2024 - June 2024

- Built and optimized **ETL pipelines** for 8+ data sources using MuleSoft, reducing processing time by 70% and ensuring accurate data availability for analytics.
 - Developed **scalable Power BI dashboards** for 4,700+ users, enabling self-service analytics and improving decision-making speed by 50%.
 - Improved **data validation and quality checks**, reducing reporting errors by 25% and increasing stakeholder trust in insights.
 - Collaborated with cross-functional teams in an **agile environment** to align data solutions with business KPIs and enhance user experience.
 - Worked with **APIs and Postman** for system integrations, ensuring seamless data flow between enterprise applications and reporting platforms.
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PROJECTS

Semantic Book Recommender | Python, Hugging Face

Jan 2025 - April 2025

- Built a **semantic recommender system** that curates and organizes book data based on user queries and thematic relevance using LLMs and **transformer-based NLP** models
- Used **FAISS vector search** for fast similarity matching, enabling intelligent retrieval across large book datasets
- Applied **zero-shot classification** to automatically tag books with metadata such as **genre (fiction/non-fiction)**, improving cataloguing and filtering accuracy
- Integrated **sentiment and emotion analysis** to enrich metadata with tone-based descriptors, contributing to deeper data annotation

AdSnap Studio — AI-Powered Product Ad Generator

Nov 2024 - Dec 2024

- Built a **Streamlit app** integrating **Bria AI APIs** for text-to-image generation, background removal, shadow effects, and lifestyle shots.
- Developed AI-driven **prompt enhancement** to improve image quality and relevance.
- Designed modular pipelines for multi-step image processing and real-time UI customization, including **CTA overlays**.
- Managed secure API access and optimized asynchronous calls for fast, scalable image generation.
- Collaborated on code reviews and testing to ensure robustness and production readiness.

Single-image Self-supervised Learning

Oct 2024 - Dec 2024

- Developed a **self-supervised computer vision model** capable of learning from unlabelled image datasets by generating its own training signals, contributing to **label-efficient metadata generation**.
 - Designed custom **pretext tasks** (e.g., image inpainting, patch prediction) to train models without labels
 - Leveraged **contrastive learning techniques** for representation learning on unlabelled images
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TECHNICAL SKILLS

- **Programming & Tools:** Python, SQL, Git, GitHub, Jupyter Notebooks, Agile (Jira, Confluence)
 - **Machine Learning & AI:** Scikit-learn, TensorFlow, PyTorch, Keras, Deep Learning (CNN, RNN, NLP), Sentiment Analysis, Model Evaluation & Optimization
 - **Generative AI & Prompt Engineering:** Effective prompt engineering and experience with generative AI tools including ChatGPT Enterprise, Microsoft Copilot, Google Gemini, and open-source models like LLaMA, DeepSeek
 - **Data Analysis & Research:** Pandas, NumPy, Excel, Data Cleaning, Feature Engineering
 - **Data Integration & ETL:** MuleSoft, SQL/NoSQL, API Integration, Cloud Platforms (AWS)
 - **Visualization & Reporting:** Power BI, Tableau, Matplotlib, Seaborn, Plotly, Google Sheets, Interactive Dashboards, Storytelling with Data
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ACHIEVEMENTS

- **Best Intern Award** – Emerson IT Solutions (2024), for outstanding contributions in building scalable data pipelines and dashboards.
 - **Gold Medalist, B.E. Computer Science (AI & ML)** – Chandigarh University (2024), graduating top of class with **CGPA 9.01/10**.
 - **High School Topper (10th & 12th Grade)** – Consistently ranked #1 in school with scores of **96.6%**
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CERTIFICATIONS

- Microsoft Power BI Data Analyst Associate
- Tableau Desktop Specialist (Udemy)
- AWS Cloud Practitioner
- Hugging Face NLP Course
- SQL (Intermediate & Advanced from Udemy)