**Sameer Sharma**

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**PROFESSIONAL SUMMARY**

Detail-oriented **Data Scientist** skilled in **data visualization, SQL, Python, Machine learning, Deep learning** and **business intelligence tools** to support data-driven decision-making. Bring a strong academic foundation and hands-on experience with relevant tools and frameworks. Passionate about leveraging **data insights to improve operational efficiency and business performance**.

**EDUCATION**

**Loyalist College** *Toronto, ON*

Ontario Graduate Certificate, AI and Data Science – **GPA 3.7** Apr 2025

* **Relevant courses:** Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Advanced Analytics, Math for Data Science, Statistical Modelling, Data Warehousing and Business Intelligence

**GGDSD College** *Chandigarh, India*

Bachelor of Computer Applications May 2021

* **Relevant courses:** Computer Programming, Calculus, Linear Algebra, Data Structures, DBMS

**PROJECTS**

**FinQA Chatbot**

* Lead a team of 7 members to develop an end-to-end chatbot to answer financial questions based on quarterly financial reports of companies.
* Achieved 95%+ accuracy on numerical outputs, 87%+ Bert F1 on contextual outputs, <5 seconds average response time.
  + Scraped financial reports through BeautifulSoup, formatted tabular information, cleaned data and stored it in Oracle Data warehouse. Cleaned textual data and stored it in MongoDB by using advanced semantic chunking using sentence relationship and used Google embedding model for embeddings.
  + Used few-shot prompt engineering techniques to generate SQL queries by Llama 3.3 70b using groq API on tabular data based on natural language financial questions from the user.
  + Retrieved top 4 relevant chunks based on the user’s input and formatted it using Mistral 24b model.
  + PostgreSQL for secure user login and chat history data.
  + React and CSS for a mobile-responsive intuitive front-end.
  + Flask for connecting front-end and back-end functionalities.
* Tools: Python, ReactJS, CSS, Flask, groq API, BeautifulSoup, Oracle data warehouse, SQL, Prompt engineering, regex, Excel, PostgreSQL
* Github: [Github link](https://github.com/LCIT-AIP-W25/FinQA/)
* Link: [Project Portfolio](https://sumithvadla.wixsite.com/my-site-5)

**Image Classification and Generation on Yelp Photos Dataset**

* Developed four models to classify and generate images from the Yelp Photos Dataset:
  + VGG Transfer-Learned Model: Fine-tuned a pre-trained VGG model for image classification.
  + Custom CNN: Built a CNN from scratch for image classification.
  + WGAN: Implemented a Wasserstein GAN for realistic image generation.
  + DCGAN: Designed a DCGAN for generating detailed images.
* Classified images into five categories: drink, food, outside, inside, and menu.
* **Tools:** Python, TensorFlow, Keras, OpenCV, GAN frameworks, Streamlit
* **GitHub:** [Github link](https://github.com/Deep-Learning-Group-A/DL_Case_Study2)

**Sentiment Prediction Using Transformers on Yelp Restaurant Dataset**

* Built transformer-based models for sentiment analysis on Yelp restaurant reviews:
  + Causal Transformer: Utilized autoregressive modeling with positional encodings for sentiment prediction.
  + Non-Causal Transformer: Predicted sentiment polarity by analyzing the entire text sequence.
* Tasks included predicting sentiments as positive, negative, or neutral.
* **Tools**: Python, Hugging Face transformers, TensorFlow, NLP techniques, Streamlit
* **GitHub:** [Github link](https://github.com/Deep-Learning-Group-A/DL_Case_Study2)

**Navigation Aid for Visually Impaired Individuals**

* Lead a team of 11 members to develop an end-to-end computer vision system to enhance navigation and safety for visually impaired users.
* Key Features: Alert System (approaching vehicles/objects), Street Name Detection, and Pedestrian Signal Recognition.
* **Tools:** Python, OpenCV, TensorFlow, Text-to-Speech APIs
* **GitHub:** [Github link](https://github.com/shubhambhavsar/ThirdEyeVision)

**Student Performance Indicator**

* Followed a modular and industry-level structure for ML Projects in Python using custom logging and exceptions.
* Created pipelines for data ingestion, data transformation, model training and prediction.
* Flask API to connect front-end and back-end.
* AWS Elastic Beanstalk for deployment of webapp written in HTML.
* AWS CodePipeline for C/D pipeline.
* Git for version control.
* **Github**: [Github link](https://github.com/sameersharmaAI/end2end)

**SKILLS**

* **Programming**: Python, SQL, R, PySpark (Apache Spark)
* **Machine Learning & AI**: TensorFlow, PyTorch, scikit-learn, Keras, LLM’s, GANs, Computer Vision
* **Cloud & ETL**: AWS, GCP, Azure
* **Tools**: Git/GitHub, Docker, Streamlit, Gradio
* **Databases**: MySQL, MongoDB, Oracle, Apache Hive, PostgreSQL
* **Data Visualization**: Tableau, Advanced Excel, Matplotlib, Seaborn
* **Data Analysis**: Statistical Modelling, Data Cleaning, Predictive Analytics
* **Data Annotation:** cvat.ai, RoboFlow
* **Project Management**: Agile, Team Leadership, Strategic Planning

**ADDITIONAL WORK EXPERIENCE**

**Brand Momentum** *Toronto, ON*

Brand Ambassador November 2023 – April 2024

* Engaged with customers by providing a welcoming and positive experience.
* Ensured strict compliance with safety protocols and company guidelines during every customer interaction, maintaining a secure and trustworthy environment.
* Monitored and reported on key performance indicators (KPIs) and met weekly and monthly targets with a closing ratio of more than 80%.
* Proactively shared details about upcoming services and products, aligning with promotional goals while keeping customers informed and excited.
* Supported sales targets by actively tracking and responding to customer feedback and product inquiries, reinforcing a customer-focused approach to meeting objectives.
* Provided said regular sales reports and updates to management, including forecasts and pipeline analysis

**ACHIEVEMENTS**

**Hackathon Winner | TBC Fintech Hackathon (2024)**

* Designed and implemented a winning solution addressing accessibility in QR code payments, focusing on visually impaired users.
* Outperformed 23 other teams by showcasing expertise in computer vision, voice interaction, and payment security.

**VOLUNTEER RECOGNITION (2025)**

* Participated in face-to-face street fundraising for Amnesty International.

**CERTIFICATIONS**

* **Google** – Advanced Data Analytics Professional
* **Netmax** **Technologies** - Machine learning with Python
* **IBM** – Working in a Digital World: Professional Skills