

Tanishq Chahal

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EDUCATION

BASc. Honours Computer Science

Hamilton, ON | 2023-2027

McMASTER UNIVERSITY

Coursework: Linear Algebra; Calculus; Discrete Mathematics; Software Design; Computational Thinking; Business Data Analytics; Data Structures and Algorithms; Computer Architecture

WORK EXPERIENCE

CARPATHY | DATA ANALYTICS INTERN

India | Jun 2022 – Oct 2022

- Maintained large databases and used various statistical techniques to collect, analyze, and interpret data from customers and partners..
- Identified and cleaned any data issues from large data sets, improving data accuracy and reducing analysis time by **30%**.
- Conducted data analysis and identified key insights that led to a **10%** increase in their sales.
- Assisted in the creation of reports and dashboards to communicate data insights.

PROJECTS

VOICE ASSISTANT BOT

PYTHON, STREAMLIT, OPENAI API

- Designed and implemented a voice assistant bot utilizing OpenAI APIs, integrating GPT-4o-mini for dynamic response generation, Whisper-1 for accurate speech-to-text conversion, and TTS-1 for natural text-to-speech output.
- Executed end-to-end project management, overseeing the development, testing, and deployment of the voice assistant bot

DATA VISUALIZER

PYTHON, LANGCHAIN, STREAMLIT

- Developed an innovative data visualization tool using LangChain, enabling users to generate visualizations through natural language queries, streamlining the data analysis process.
- Enhanced data accessibility by providing a user-friendly interface where non-technical users can easily interact with complex datasets using everyday language.

GENAI PORTFOLIO

PYTHON, LANGCHAIN, STREAMLIT

- Developed a dynamic personal portfolio using Streamlit, showcasing projects and skills with an integrated AI chat assistant for enhanced user interaction.
- Implemented Retrieval Augmented Generation (RAG) using LangChain to enable context-aware interactions, allowing visitors to learn more about my work through natural language conversations.

EXTRACURRICULARS

MCMaster MATHSTRONAUTS | GENERAL MEMBER

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- Participated in workshops, hackathons, and collaborative projects to continually enhance my technical skills, gaining hands-on experience across diverse technology domains.

GOOGLE DEVELOPERS STUDENT CLUB | GENERAL MEMBER

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- Pursued and enhanced technical skills through exposure to diverse Google technologies, staying updated on industry trends and advancements.

SKILLS

Languages: Python, C, C++, SQL, HTML, CSS, JavaScript, Elm, MATLAB

Data Science and Machine Learning: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, Langchain

Tools and Platforms: Git, GitHub, AWS, IBM WatsonX, Visual Studio, MySQL, Linux, Excel