Siimar Leen Kaur

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Education

University of Waterloo *Bachelor of Computer Science*   Sep 2023 – Apr 2028
- **Relevant Coursework:** (Advanced): Designing Functional Programs, Elementary Algorithm Design & Data Abstraction

Skills

Languages	Python, SQL, C/C++, HTML, CSS, JavaScript, TypeScript, Haskell, Racket, Assembly
Frameworks	Tensorflow, Keras, Numpy, SciPy, Pandas, SKLearn, Matplotlib, GDB, Valgrind, Node.js, MongoDB
Tools	Linux, Shell, Git, Bash, VSCode, AutoML, AWS, Google Cloud, Azure, Power Apps

Experience

Buildspace *Software Engineer*   San Francisco (Remote) • August 2023, January 2024- Ongoing
- **Preference-based Music Recommendation Platform**
- Users can enter prompts to curate playlists based on Mood, Genre, Artist, Era, & Year-> use of Generative AI models.
- Enables users to vote on song fittability in the created playlists. Creating Toggle Website, Music recomm. system for basics.

Hewlett Packard Enterprise *Project Team Leader, Data Processor*   Texas, USA (Remote) • August 2022 – September 2022
- **Face Mask Detection**
- Won an **International Award for Best Team** among 2 projects (one under NTU)(among 8 teams: total 60 students, across Asia)
- Received a **Letter Of Recommendation** (Given only to the **Winning Team**)
- Trained the model with licensed images and against anomalies for precise results using **Computer Vision & Ethics in AI**.
- Used **Automated ML in Azure ML, Cloud Vision API, Azure AI Custom Vision, Cloud Natural Language AI, Power Automate**
- Created a QnA Maker • Applications of **ML Algorithms** • **AutoML** • Handwritten Digit Classification with **Deep Learning** and **CNN** • Image Classification, Optical Character Recognition • **Sentiment Analysis**

Nanyang Technological University *Project Team Leader, Coder*   Singapore (Remote) • July 2022 – August 2022
- **Music Genre Classification**
- Used **SVMs, KNNs, K-means clustering algorithms**, and **CNN** to classify genres and Collected, cleaned data from **Kaggle**.
- Used Numpy, Pandas, & Tensorflow, stored **5000 data entries** from Spotify as 30-sec audio files, **Linear Regression Models**.
- Minimized **loss function**, maximized model accuracy **(57%)** with **Gradient Boosting** and **Neural Network** being most accurate.
- Created **Chatbots** & 'Object, Flower-Type & Cancer **Detection Models**', Learned:• Prediction & Classification • Decision Trees Learning Algorithms • Overfitting & Error Performance • Maximum Marginal, Soft Margin Classifier • Network structures

Projects

Alumni Management System *SQL, Python*
Optimized data storage, retrieval, and user authentication for seamless alumni engagement and communication.

Theme Switcher Social Media Dashboard Challenge ↗ *HTML,CSS, Javascript*
Achieved **dynamic theming** and **user-friendly/ accessible interaction**.

Python Music Recommender System *Python*
Developed a music recommender system in Python utilizing **TF-IDF vectorization** and **cosine similarity** to analyze and recommend similar songs based on lyrics, demonstrating proficiency in **NLP** and **recommendation algorithms**.

Extra-Curriculars

Computer Science Club *Marketing Coordinator, Office Staff*   Kitchener, ON • Sep 2023 – Ongoing
- Promote **coordinated partnerships** with the Content Creation team and **CSC event promotions** with WUSA & MathSoc.
- Utilize social media expertise to engage **UW's largest tech community** on Discord and Instagram.
- Improve **social media management skills, brainstorming abilities, and time management** skills.

Combining 2 Cultures Conference 2024 *Outreach Coordinator*   University of Waterloo, KI • July 2023 – Jan 2024
- Generate **engagement via email** - Liaise with other schools and within UW to increase participation.
- Provide **updates on potential collaborations or concerns, and outreach** to schools/programs with limited or no attendance.
- Find new program attendees, attend Zoom meetings with other programs, and connect with their social media accounts.
   Enhances **communication, coordination, and team collaboration skills** for **professional settings**.