Manan Daga

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EDUCATION

The University of British Columbia *Vancouver, BC*
Bachelor of Science in Computer Science and Statistics *Sep 2022 - Apr 2026*
- Major GPA: **4.33**/4.33; Cumulative GPA: **4.2**/4.33; **Dean's Honour List** (2022/23)
- Relevant Courses: **Algorithms and Data Structures**, **Software Construction**, Data Science and Statistical Inference, Advanced Calculus
- Extracurriculars: Data Science Club (Data Analyst); Learning Analytics Hackathon (Wildest Idea ⧉)

SKILLS

Languages: Python, Java, C/C++, R, HTML, CSS, JavaScript
Technical Skills: React/React Native, Django, Matplotlib, Pandas, NumPy, ScikitLearn, Tidymodels, Spring, Beautiful Soup, Firebase, Node.js, express, MongoDB
Tools: Git, VS Code, PyCharm, IntelliJ, Jupyter Notebooks
Data Science: Data Analysis, Data Preprocessing, Feature Extraction, Data Visualisation, Modelling

EXPERIENCE

Atria Community *Vancouver, BC*
Full Stack Developer intern *Dec 2023 – Present*
- Spearheaded the development of crafting a transformative Townhall web application in an agile team, facilitating user engagement through volunteer initiatives, donation process, and petition signing functionalities
- Architected the backend infrastructure with Django, ensuring robustness and scalability, and added REST APIs to facilitate seamless communication between the frontend and the backend

Insphere Solutions Pvt. Ltd. *Delhi, India*
Software Developer Intern *Jun 2023 – Aug 2023*
- Developed and Deployed a **React Native** app facilitating the vaccination process of over **10000** under-represented individuals
- Worked closely with developers and UI designers to create an intuitive UI and integrated features such as appointment booking and real-time vaccine information using **Firebase**.

PROJECTS

UBC Course Scheduler ⧉ | *React, Python, Django, Beautiful Soup* *May 2023 - May 2023*
- Created a **React** web application to facilitate course selection across **150+** subjects for students, taking into account various criteria such as courses, term preferences, and time constraints
- Scraped the UBC website using **Beautiful Soup** to extract relevant course details
- Employed a backtracking search algorithm in **Python** to efficiently manage the course selection
- Developed RESTful API using Django and Django REST Framework that handles user requests

Space Invader Face-Off ⧉ | *Python, Pygame, Sockets* *Sep 2023 - Sep 2023*
- Developed a **Python** based two-player local multiplayer game using **PyGame** where users battle head-to-head with their spaceships
- Implemented data synchronization methods using **socket programming** to achieve cross-device **networking** communication with a latency of less than **0.02** seconds, enabling bullets to seamlessly travel across players' screens

Drum Player ⧉ | *Java, JUnit, Swing, JSON* *Feb 2023 - Apr 2023*
- Created a **Java** based Drumming simulation app with a GUI implemented using **Swing**
- Users trigger drum sounds using keys from the keyboard which can be recorded to be replayed later
- Designed a state-saving mechanism for users to save the application's state for use in future sessions by serializing the data into a **JSON** format
- Extensively tested the code using **JUnit** to ensure the robustness and reliability of the app's functionality

Heart Disease Prediction ⧉ | *R, Tidymodels* *Feb 2023 - Apr 2023*
- Created a classification model using **K-Nearest Neighbours** Classification in **R** to predict the presence of heart diseases with an **84%** accuracy using just 300 feature vectors
- Cleaned, tidied and categorized a real-world dataset from Kaggle into testing and training sets
- Used **forward selection** and **cross-validation** to find the best variables and k values respectively for the classifier