NISHANT SAI CHALLA

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EDUCATION

University of Victoria Victoria, BC 2024 - Present
Bachelor of Science in Computer Science and Mathematics

The University of British Columbia Vancouver , BC 2021 - 2023
Bachelor of Applied Science in Engineering

SKILLS

Technologies:

- **Programming Languages:** C, Python, Java, JavaScript (ES6+), R
- **Frameworks & Libraries:** React, React Native, React Router, Next.js
- **Front-End:** HTML5, CSS3, JSX
- **Back-End:** Node.js, RESTful APIs
- **Databases:** SQLite, PostgreSQL, Microsoft SQL Server
- **Tools & Platforms:** GIT, NPM, VSC, DBeaver, Tableau, MicroSoft SQL Server Management Studio
- **Data Structures & Algorithms:** Linked Lists, Stacks, Queues, Trees, Graphs, Searching, Sorting, Dynamic Programming

PROJECTS

Spotify Streaming Data Analysis

- Cleaned and standardized a Kaggle-based Spotify dataset in R, ensuring consistent numeric fields and complete artist and song records.
- Created bar charts, line charts, and heatmaps using R libraries (e.g., ggplot2) to compare daily streams and reveal overlaps between top songs and artists.
- Used linear regression (with Cook's distance and residual plots) to examine how an artist's total streams predict the streams of their top song.
- Applied logistic regression to determine if a song is likely to rank in the top 10 based on daily streams, total streams, and artist popularity.
- Conducted K-means clustering to categorize artists by streaming metrics (daily streams, total streams, lead/feature/solo proportions).
- Technologies & Tools: R, Tableau.

Full Stack Project - MovieZone

- Developed a React.js application integratingOMDb and WatchMode APIs for real-time movie data, personalized recommendations, and streaming availability tailored to users.
- Created reusable components (e.g.,MovieCard, Recommendations) and a responsive UI.
- Implemented React Router for seamless navigation and React Hooks (useState, useEffect) for efficient state management.
- Fetched real-time data via RESTful APIs and ensured robust error handling and loading indicators.
- **Technologies & Tools:** React.js, HTML, CSS, JavaScript (ES6+), React Router, Git, NPM, OMDb API, WatchMode API

COVID-19 Data Analysis & Dashboard

- Performed end-to-end analysis of global COVID-19 data (cases, deaths, vaccination rates) using T-SQL in Microsoft SQL Server, optimizing performance through window functions, CTEs, and temporary tables.
- Calculated mortality and infection rates by country and continent using data from OurWorldInData.org, enabling detailed trend analyses.

- Created an interactive Tableau dashboard with geospatial maps, bar charts, line charts, and forecast models to pinpoint hotspots and project future growth.
- Implemented parameter-driven filters, custom tooltips, and dynamic visuals to support real-time data exploration and actionable insights.
- **Technologies & Data Sources:** T-SQL, Microsoft SQL Server, Tableau, Excel, OurWorldInData.org.

EXPERIENCE

VikeLabs Member 02/2024 - Present

VikeLabs, Victoria, BC

VikeLabs is a collective of students who learn to build, deploy, and test software apps. We are a community of student developers, designers, and entrepreneurs who are passionate about designing software solutions for students and the UVic campus community.

SUBC Member 09/2022 - 09/2023

SUBC - UBC's Submarine Design Team, Vancouver, BC

Collaborated with UBC's Submarine Design Team (SUBC) to design, construct, and test a one-person human-powered submarine. Contributed to the team's successful participation in international competitions in the United States and England, showcasing innovative engineering solutions and teamwork.