Avi Walia

647-637-8025 | avi.walia@mail.utoronto.ca | linkedin.com/in/avi-walia | github.com/Avi04w

EDUCATION

University of Toronto   Sep 2022 – Apr 2026
Bachelor of Computer Science, Specialist in Data Science   *Toronto, ON*

Relevant Courses: Data Science, Machine Learning, Artificial Intelligence, Software Engineering, Databases, Data Structures and Analysis, Methods of Data Analysis, Algorithms Design and Analysis

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, JavaScript, C, HTML/CSS
Libraries/Frameworks: Pandas, NumPy, Scikit-Learn, PyTorch, Matplotlib, React.js, Flask, JUnit
Developer Tools: AWS, Git, PowerBI, Jupyter, Google Colab, Maven, Jaspersoft
Databases: Oracle, Google Firestore, PostgreSQL, MongoDB
Skills: Data Science, Software Engineering, ETL, Cloud Computing, Web Development

EXPERIENCE

Full Stack Developer   May – Aug 2023 and May – Aug 2024
Third Eye Solutions Inc.   *Mississauga, ON*

- Facilitated and carried out application upgrade from Java 8 to 17, ensuring compatibility, leveraging new features, and improving application performance and security
- Successfully upgraded the build automation tool from Ant to Maven, enhancing the efficiency and maintainability of the project build process
- Used Oracle SQL Developer to write queries to maintain Customer Schemas and update Data Models
- Created e-signature application to automate and store customer acceptance of insurance contracts

PROJECTS

Baseball Game Simulation | *R, Markov Chains, plyr*   May – July 2024

- Designed a baseball game simulation model using Markov Chains to predict game outcomes
- Created event-specific probability matrices (e.g., home runs, strikeouts) to model realistic game scenarios

Twitter Trending Topics Data Analysis | *Python, pandas, NumPy, scikit-learn*   Mar – Apr 2024

- Conducted trend analysis on recent tweets mentioning "Toronto" using Latent Dirichlet Allocation
- Utilized Python libraries such as Tweepy and NLTK to extract, clean, and preprocess social media data

Galaxies Data Analysis | *R, Linear Regression, Hypothesis Testing*   Jan – Apr 2023

- Wrangled and cleaned complex astronomical datasets from Galaxy Zoo and NASA Sloan-Atlas
- Used hypothesis testing and linear regression to conducted a statistical analysis and create visualizations

EXTRA-CURRICULARS

- Vertige Investment Group - Project Lead of Algortihmic Trading
- Statistics and Data Science Peer Mentor - University of Toronto
- Athletics - Intramural Sports Teams - Basketball and Volleyball

HONOURS/AWARDS

- Dean's List Scholar - University of Toronto
- Florence Louisa Cody Memorial Scholarship Winner - University of Toronto
- UofTCTF Ethical Hacking Competition - Top 10 finish